State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director
Hazardous Waste Operations

John J. Trela, Ph.D., Director
401 East State St.
CN 028
Trenton, N.J. 08625-0028
(609)633-1408

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

4/3/91
(DATE)

MEMORANDUM

TO: Distribution List

THROUGH: Roman Lyeckyj, Section Chief
Bureau of Federal/~~State~~ Case Management

FROM: Ilse Freudenberg, Case Manager
Bureau of Federal/~~State~~ Case Management

CASE: UOP Inc.

CASE COMPONENT: Lagoon - IRM

SUBJECT: Remediation Report

The attached type of document on the above named facility is for your:

[ ] Review and comment

[X] Information and/or file

[ ] Action

[ ] Other

Should you have any questions or if you are unable to meet the due date, please contact me at 609 633-1455.

[redacted] Date: [redacted]

Activity Code: EKA

[redacted]

Attachment

Lagoon Remediation

TABLE OF CONTENTS

Section 1. Executive Summary

Executive Summary

The remediation of the lagoons at the UOP Site in East Rutherford ,NJ was successfully completed on August 17, 1990. OH Materials was the successful bidder for the excavation and dewatering phase and Chemical Waste Management was awarded the contract for transportation and disposal.

Mobilization of equipment began on April 17,1990. A board road was constructed along the Western edge of lagoon 1 to Area 1A. This was used as the point of access for all equipment into and out of the lagoons. An existing concrete foundation was converted into a secure storage and loading area for the processed waste. A fence with a wind curtain was built around the perimeter with two access gates for trucks and equipment. The entire concrete pad was the surrounded with a clay berm which was covered with visquene and rock. The process area where the trailer mounted equipment was placed was covered with rock to provide stable footing. The final site preparation was the removal of the vegetation from the surface of the lagoons. The phragmittes plants were cut down and hauled to a pile in Area 5 of the uplands region of the site.

The mobilization was virtually complete within a week and removal of the PCB hot spots in lagoon 2 began. These areas were isolated from surrounding material by 16′ x 16′ steel boxes that were constructed on site. The boxes were positioned over a hot spot by the marsh buggy and were then hammered into the clay lagoon bottom to seal the box from lateral intrusion. A hydraulic pump was inserted into the boxes and the lagoon material including sludge, rocks, roots and clumps of soil were conveyed via a pipeline to the processing equipment. The pumped material exited onto a shaker screen which removed clumps, rocks , phragmittes roots, etc. The removed material was collected in a dump box and taken to lagoon 1 for staging for disposal at a later date. The liquid lagoon material then dropped through the shaker screen into a mixing tank to keep the solid materials in suspension until processing through the filter press. The filter press was a plate and frame type operating at 220 psi. Once a filter cycle was complete the material was dropped onto a conveyor which discharged into a front end loader. From there it was placed into lined roll-off boxes which were stored in the secured staging/shipping area. The water coming off the filter press was treated with activated carbon and returned to the lagoon. At the completion of the hot spot treatment the equipment involved was decontaminated using Penetone and a pressure washer. The rinse water was treated using GAC (granular activated carbon), collected in the effluent tank and sent offsite to Chemical Waste Management's TSD facility in Newark, NJ. The six roll-off boxes of filter cake generated during this phase of operation were scheduled to be sent to APTUS (TSD incinerator, Coffeeville, KS) for incineration on May 2,1990.

On this day the Local 825 of the Operating Engineers formed a picket line at the gate entrance of the facility. Over fifty men blocked the gate entrance preventing anyone from accessing the property from Route 17. OH Material and Chem Waste personnel entered the plant along the rail tracks. Remediation work was curtailed since all union contractors refused to cross the picket line. Mark Kamilow, Allied Signal's project manager, was assaulted as he entered the plant. A blow to the head caused a wound requiring 10 sutures.

On May 3,1990 a court injunction was issued against the union. However, that night the site was broken into and equipment was sabotaged. Radiators were punctured, tires flattened and metal shavings were dropped in the crankcases. Another injunction was eventually served but the damage was done and operations were shut down for a total of 13 days.

The lagoon remediation was restarted on May 16,1990. A mudcat was used to pump the material into the process. The shaker screen had to be enlarged to handle the large volume of root materials coming from the phragmittes. Approximately halfway through the remediation the mudcat was removed and replaced with a dredge that had a larger feed auger. This machine proved to be more capable of handling the heavier materials and the root mass. The filter cake generated during this time was trucked to the staging/shipping area prior to trucking to Chemical Waste Management's TSCA landfill in Emelle, Al.

During the initial lagoon remediation the water was treated and put back into the lagoon. This was required to keep the barge dredge afloat. As the level of sludge decreased it became necessary to lower the water level. Initial plans were to discharge the water to the creek. Delays in obtaining a NJDPES permit forced the use of the contingency plan which called for off site disposal. Over 600,000 gallons of water were sent to Chemical Waste Management's TSD facility in Newark, NJ. This approach was successful until heavy rainfall and flooding caused by high tides negated efforts to lower the water level. A groundwater discharge permit from DEP was applied for to spray irrigate the treated water onto the uplands region of the site. An agricultural irrigation gun was mounted to a pickup truck and a spray of 150 - 200 gpm was discharged on a 100 foot radius. This technique allowed for discharge of the water on the dry upland areas without ponding or runoff. The spray, which was done on sunny days when the temperature exceeded 80 degrees F. also maximized evaporation. Within 10 days 350,000 gallons of water were removed which lowered the water level in the lagoons to acceptable levels.

With the bulk of the water out of the lagoon the dredge was able to pump materials high in solid content greatly reducing the cycle times of the filter presses. Eventually the material became too heavy for the dredge pump and excavating equipment was put into the lagoon. The remaining material was solidified with cement kiln dust (CKD) and loaded directly from the lagoon into dump trucks for transport to the shipping/staging area.

The lagoon was sampled on July 17 and 18 in accordance with the work plan. These samples indicated that some contamination remained. An additional 700 yards of material was then removed and a second sampling event took place on August 6 and 7. The results of this sampling were approved by DEP and the final berm restoration began. A filter fabric was placed on the berm top and berm slope and covered with rock.

Final DEP inspection and demobilization took place the week of August 16. The board road was covered with rock and left in place. This access may be required for future remedial activities at the site.

Section 2. Enclosures

1) Generator Waste Profile Sheets
   A. Solid Waste - Landfill (Form # J54512)
   B. Solid Waste - Incineration (Aptus)
   C. Incineration - ChemWaste (Form # J54510)
   D. Water (Form # J54513)
   E. Notification of PCB Activity

2) Shipping Records
   A. Solids
   B. Water

3) Manifest & Record of Receipt (Destruction)
   A. APTUS - Incineration
   B. EMELLE - Landfill
   C. CHEM WASTE (Newark) - Water

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

J54512

[ ] J 54512
Waste Profile Sheet Code

CWM Location of Original: _____ (SHADED AREAS FOR CWM USE ONLY) **CWM Sales Rep. #:** [ ]

A. GENERAL INFORMATION

1. Generator Name: Universal Oil Processing UOP
2. Generator USEPA ID: NJD 002005106
3. Facility Address: Intersection of State Routes 20 & 17
East Rutherford, NJ
4. Generator State ID: _____
5. Zip Code: 07073
6. Technical Contact: Mark Kamilow
7. Title: Mgr.-Remedial Serv
8. Phone: (201) 455 - 2119

B. MAIL CHEMICAL WASTE MANAGEMENT, INC. INVOICES TO

1. ☐ Generating Facility (A, above), or
2. Company Name: CWM ENRAC
3. Phone: (609) 243 - 7800
4. Address: 100 Nassau Park Blvd
Princeton, NJ
Attn: Kara Fasulo
5. Zip Code: 08540

C.

1. **NAME OF WASTE** Filter Cake/Soil Sediment
2. **PROCESS GENERATING WASTE** Waste Water Settling Pond
3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
☐ Yes ☒ No If yes, **DO NOT COMPLETE** this form. Contact your Chemical Waste Management, Inc. sales representative for assistance.

D. PHYSICAL CHARACTERISTICS OF WASTE

1. Color:	2. Does the waste have a strong incidental odor?	3. Physical State @ 70°F:	4. Layers:	5. Specific Gravity:	6. Free Liquids:
Brown/ Black	☒ No ☐ Yes If known, describe:	☒ Solid ☐ Semi-Solid ☐ Liquid ☐ Powder Other:	☐ Multilayered ☐ Bi-layered ☒ Single Phased	Range: 1.0 - 1.4	☐ Yes ☒ No Volume: %

7. pH: ☐ ≤ 2 ☐ > 2-4 ☐ 4-7 ☐ 7 ☒ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range _____ - _____ ☐ NA

8. Liquid Flash Point: ☐ < 73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☒ ≥ 200°F ☐ None ☐ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION

1.	RANGE MIN.	- MAX.	
Filter Cake Solids containing:			%
~~Peat, Soils, Lime, Miscellaneous Debris~~			%
(i.e. wood, stone, PPE)	80	90	%
			%
			%
Solidified Soil/Peat	10	20	%
			%
			%
			%
			%
			%
			%
			%
			%

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%. **TOTAL:** 110 %

2. Indicate if this waste contains any of the following:

	NONE	or LESS THAN	or ACTUAL
PCB's	☐	☐ < 50 ppm	< 500 ppm
Cyanides	☐	☐ < 50 ppm	_____ ppm
Phenolics	☐	☐ < 50 ppm	13 ppm
Sulfides	☐	☐ < 50 ppm	< 500 ppm Reactivity

F. METALS

Indicate if this waste contains any of the following: 1. ☒ EP TOX/TCLP or 2. ☐ Total

METAL	LESS THAN	or	ACTUAL (Parts Per Million)
Arsenic	☒ < 5	☐ < 500	
Barium	☒ < 100		
Cadmium	☒ < 1	☐ < 100	
Chromium	☒ < 5		
Lead	☒ < 5	☐ < 500	
Mercury	☒ < 0.2	☐ < 20	
Selenium	☒ < 1	☐ < 100	
Silver	☒ < 5		
Chromium-Hex	☒ < 5	☐ < 500	
Copper	☐ < 5		
Nickel	☐ < 5	☐ < 134	
Thallium	☐ < 5	☐ < 130	
Zinc	☐ < 5		
_____	☐ <		
_____	☐ <		
_____	☐ <		

Model City + Emelle

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET WORKSET

Return this completed workset to:

_____

_____

_____

_____

GENERAL INSTRUCTIONS

This workset contains two forms:

- **GENERATOR'S WASTE MATERIAL PROFILE SHEET**
- **GENERATOR'S CERTIFICATION OF REPRESENTATIVE SAMPLE**

1. The Generator's Waste Material Profile Sheet is a two-sided form. Both sides must be completed.
2. This document is perforated so the forms and instructions may be separated for your convenience. If the forms are separated, take special precautions to assure that they are used to describe and identify **ONLY** the same waste.
3. Shaded areas on the forms are for Chemical Waste Management use only.
4. Answers must be made to all questions with the exception of PART I, "Reclamation, Fuels or Incineration Parameters," which is optional.
5. Answers must be printed in ink or typed (elite, 12-pitch).
6. Instructions are included to help you complete these forms correctly. The letters and numbers which precede each instruction refer to the lettered and numbered entries on the forms.
7. Both the Generator's Waste Material Profile Sheet and the Generator's Certification of Representative Sample forms must be signed.
8. The Certification of Representative Sample and its peel off Sample Label must be used to identify **ONLY** the sample of the waste described on the attached Generator's Waste Material Profile Sheet.
9. The peel off label must be completed before removal from the form and applied to the container which actually holds the sample material - **not** on the shipping carton - even if the sample already has another label.
10. If you have any questions concerning the use of these forms, please contact your Chemical Waste Management Sales Representative or the office that issued this workset to you.
11. **MAKE A COPY OF THESE FORMS FOR YOUR RECORDS. SEND THE ORIGINALS AND ALL ATTACHMENTS TO THE ADDRESS SHOWN ABOVE OR TO THE ADDRESS PROVIDED BY YOUR CHEMICAL WASTE MANAGEMENT, INC. SALES REPRESENTATIVE.**

Chemical Waste Management, Inc.

GENERATOR'S CERTIFICATION OF REPRESENTATIVE SAMPLE

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

J54512

J 54512

Waste Profile Sheet Code

CWM Location of Original: _____ (SHADED AREAS FOR CWM USE ONLY) **CWM Sales Rep. #:** _____

This completed form must be returned, with the representative sample, to:

_____

_____

_____

_____

INSTRUCTIONS FOR COMPLETING THIS FORM ARE FOUND ON THE OPPOSITE SIDE. In order to determine whether Chemical Waste Management, Inc. can accept the special waste described in the Generator's Waste Material Profile Sheet referenced above, you must obtain and supply us with a representative sample of the waste. We may analyze the sample to verify the information that you have provided to us. A representative sample is defined as a sample obtained using any of the applicable sampling methods specified in 40 CFR 261-Appendix I or an equivalent method. Collect a representative sample of your waste and complete the form below. Apply the peel off label and ship your sample along with this form to the address noted above. If you have any questions regarding obtaining a representative sample of your waste, please refer to the instructions for this form, or contact your Chemical Waste Management, Inc. sales representative.

A. SAMPLING METHOD (Indicate which method was employed)

If sampling requirement has been waived by Chemical Waste Management, Inc., do not complete this Generator's Certification of Representative Sample form.

1. ☑ I have obtained a representative sample of the waste material described in the Generator's Waste Material Profile Sheet referenced above according to the sampling methods specified in 40 CFR 261-Appendix I.
2. ☐ I have obtained a representative sample of the waste material described in the Generator's Waste Material Profile Sheet referenced above using a method equivalent to the sampling methods described in 40 CFR 261-Appendix I.

B. SAMPLE SOURCE (e.g., drum, lagoon, pit, pond, tank, vat) Lagoon

C. SAMPLE LABEL — COMPLETE LABEL BEFORE REMOVING

J54512

1. Waste Profile Sheet Code:		1. Waste Profile Sheet Code:
2. [redacted] Generator's Name:	UOP / Allied Signal	2. Generator's Name:
3. [redacted] Name of Waste:	Filter Cake	3. Name of Waste:
4. [redacted] Sample Hour/Date:		4. Sample Hour/Date:
5. [redacted] Sampler's Signature:	J.M. Kamlow	5. Sampler's Signature:

6. Print Sampler's Name: J.M. Kamlow
7. Sampler's Title: _____
8. Sampler's Employer (if CWM, see D. below): _____

D. WITNESS VERIFICATION (if required) In most circumstances you will be obtaining the sample. However, in those cases in which Chemical Waste Management, Inc. obtains the sample, one of your employees must be present to direct the particular source to be sampled, to witness the sampling, and to complete this Part D.

I was personally present during the sampling described. I directed the waste source to be sampled, and I verify the information noted above.

1. Witness' Signature: _____
2. Witness' Name: _____ 3. Witness' Title: _____
4. Witness' Employer: _____ 5. Date: _____

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

This information is required for a waste to be considered for transportation, treatment, storage or disposal. It is used to determine if the waste may be transported, treated, stored or disposed in a legal, safe, and environmentally sound manner. This information will be maintained in strict confidence. **ANSWERS MUST BE MADE TO ALL QUESTIONS** and must be printed in ink or typed (elite, 12-pitch). A response of "NONE," or "NA" can be made if appropriate.

Shaded areas are for CWM use only.

PART A.. GENERAL INFORMATION

1. GENERATOR NAME - Enter the name of the generating facility.
2. GENERATOR USEPA ID - Enter the twelve character alpha-numeric descriptor issued by the USEPA to the facility generating the waste.
3. FACILITY ADDRESS - Enter the street address (not P.O. Box) of the generating facility.
4. GENERATOR STATE ID - Enter the descriptor issued by the state to the facility generating the waste (if applicable).
5. ZIP CODE - Enter the generating facility's five or nine digit zip code.
6. TECHNICAL CONTACT - Enter the name of a person who will answer technical questions about the waste.
7. TITLE - Enter technical contact's title.
8. PHONE - Enter technical contact's telephone number.

PART B. MAIL CHEMICAL WASTE MANAGEMENT INC. INVOICES TO:

1. If you want the invoice mailed to the same address as in PART A, check "Generating Facility." If you want the invoices mailed elsewhere, then indicate the name, phone, and address, as shown in numbers 2 through 5.
2. COMPANY NAME - Enter the name of the company to which you want the invoices sent.
3. PHONE - Enter the telephone number of the company to which you want the invoices sent.
4. ADDRESS - Enter the address of the company to which you want the invoices sent.
5. ZIP CODE - Enter the five or nine digit zip code of the company to which you want the invoices sent.

PART C.

1. NAME OF WASTE - Enter a name that is generally descriptive of this waste (e.g., cyanide plating waste, paint sludge, PCB contaminated dirt, still bottoms, wastewater treatment sludge).
2. PROCESS GENERATING WASTE - List the specific process/operation or source that generates the waste (e.g., metal plating operation, paint spray booth, PCB spill, solvent recovery, wastewater treatment plant).
3. DIOXIN WASTE - Treatment, storage or disposal of Dioxin wastes requires special attention. If this waste is a USEPA listed Dioxin waste, indicate "YES" and contact your Chemical Waste Management Sales Representative. If "YES", **DO NOT COMPLETE THE REMAINDER OF THIS FORM.**

PART D. PHYSICAL CHARACTERISTICS OF WASTE

1. COLOR - Describe the color of the waste (e.g., blue, clear, varies).
2. ODOR - **DO NOT SMELL THE WASTE!** If the waste has a known incidental odor, then describe it (e.g., acrid, pungent, solvent, sweet).
3. PHYSICAL STATE - If the four boxes provided do not apply, a descriptive phrase may be entered after "Other" (e.g., gas).
4. LAYERS - Check all applicable boxes. Multi-layered means more than two layers (e.g., oil/water/sludge). Bi-layered means the waste is comprised of two layers which may or may not be of the same phase (e.g., oil/water, solvent/sludge). Single phased means the waste is homogeneous.
5. SPECIFIC GRAVITY - Indicate the range. The specific gravity of water is 1.0. Most organics are less than 1.0. Chlorinated solvents, most inorganics and paint sludge are greater than 1.0.
6. FREE LIQUIDS - Check "YES" if liquid is usually present when packaging for shipment and estimate the percent of liquid volume. Check "NO" if there are no free liquids as defined by the Paint Filter Test (SW 846 Method 9095).
7. pH - Indicate for liquid or liquid portions of the waste. Check the appropriate boxes which cover the pH of the waste. Use the "Range" space if appropriate. For solid or organic liquid wastes, indicate the pH of a 10% aqueous solution of the waste if applicable. Check "NA" for non-water soluble materials (e.g., bricks, dismantled tanks, empty drums, gases, rocks).
8. LIQUID FLASH POINT - Indicate the liquid flash point obtained using the appropriate testing method (40CFR261.21).The liquid flash point is important from a transportation standpoint (49CFR173.115).Solids with flammable potential should be identified in PART G.3 (e.g., Pyrophoric, RCRA Reactive, Other).

PART E. CHEMICAL COMPOSITION

1. List all organic and/or inorganic components of the waste using **specific chemical names.** If trade names are used, attach Material Safety Data Sheets or other documents which adequately describe the composition of the waste. For each component, estimate the range (in percents) in which the component is present. In case of extreme pH (2 or less or 12.5 or greater) indicate specific acid or caustic species present. This list must include any hazardous components listed in PARTs F, G, and/or H which exceed 10,000 ppm (1%). The total of the maximum values of the components must be greater than or equal to 100% including water, earth, etc.
2. If this waste contains **PCBs, cyanides, phenolics or sulfides,** indicate the concentration(s). If this waste does not contain these constituents, indicate by checking the **"NONE"** box(es) which apply. If the concentration of these constituents is unknown, please indicate "UNK" under "ACTUAL."

PART F. METALS

Indicate whether metals content was determined by EP Tox (extraction procedure toxicity)/TCLP (Toxicity Characteristics Leaching Procedure) from 40CFR261-Appendix II or represents the total metals. For each metal, check only one box indicating that the metal content will not exceed the stated amount or enter the actual metal content indicated by your test results in the "ACTUAL" column in parts per million. If you know a metal is **NOT** present, indicate by writing "NA" under "ACTUAL." An actual concentration of zero is not appropriate. If metal concentrations are unknown, please indicate "UNK" under "ACTUAL."

PART G. OTHER HAZARDOUS CHARACTERISTICS

1. Indicate by checking the appropriate box.
2. Indicate by checking the appropriate box. If "YES," indicate the concentration in PART E.
3. Indicate if this waste is any of the following:
   RCRA REACTIVE - As defined by 40CFR261.
   WATER REACTIVE - Reacts violently with water to form toxic gases, vapors, or fumes in a quantity sufficient to present a danger to human health or the environment.

APTUS

P.O. BOX 550, Lakeville, MN 55044
P.O. Box 1328, Colleyville, KS 67337
4120 S. 500 West #2, Murray, UT 84123

OFFICE USE ONL

APTUS PCB WASTE PROFILE

Please type or print legibly one profile per waste stream.

1. **GENERATOR INFORMATION**
Salesperson: Universal Oil Processing UOP
Generator: Intersection of State Routes 20 & 17
Address: East Rutherford, NJ
Phone Number: 201-455-2119
Technical Contact: Mark Kamilow
Facility EPA ID #: NJD 002 005 106
State ID #:

2. **BILLING INFORMATION** ( ) Bill Generator
Billing Name: Chemical Waste Management
Address: 100 Naussau Park Blvd
Princeton, NJ 08540
Phone Number: 609-243-7800
Company Contact: Kara Fusulo

3. **Generating Process Description:** Waste Water Settling Pond
Common Name of Waste: PCB Filter Cake
Rate of Generation: 500 Tons per one time
(qty) (gal/lbs) (month/quarter/year)
Amount on hand: 500 Tons
EPA Waste Codes
State Waste Codes

4. **Composition (Check all that apply)**
( ) < 500 ppm Oil ( ) >500 ppm Oil ( ) Askarel
( ) < 500 ppm Transformer ( ) > 500 ppm Transformer
( ) Capacitors
( ) Detoxification Oil
( ) PCB Flush (name)
(X) Miscellaneous Debris
ie. Suits, Rags, Plastics, Gloves, Absorbent, Catch Pans, Filters, Brooms, Mops, Wood, Floor Sweepings
(X) Other Debris Filter Cake
( ) Test Kits
( ) Laboratory Debris (Please list)
( ) Soil > 10 Drums ( ) < 10 Drums
( ) Sludge (Requires Complete Characterization)
( ) Water
( ) Empty Drums

5. **Physical Description:**
Physical State:
( ) Liquid ( ) Semi-Solid (X) Solid
Phases/Layering:
( ) Unilayer ( ) Bilayer ( ) Multilayer
% Free Liquid: pH
Odor: Color: Brown/Blue
Total Solids: 50-60%
Suspended Solids:

6. **INCINERATION PARAMETERS** ( ) Not Applicable
BTU/lb % Ash:
% Water (by WT.):
Flash Point: > 200 Total Sulfur:
Specific Gravity: Viscosity:
Total Organic Halogen (%):
PCB: Miscibility with Water:

7. **Transportation Information**
Is Waste DOT Hazardous? (X) YES ( ) NO
Proper DOT Shipping Name: RQ Hazardous Substance Solid Nos PCB
Hazardous Class: ORME UN/NA #: 9188 RQ: lbs/kg
Method of Shipment: (XX) Bulk ( ) Drums ( ) Other Container Size & Description: 40 cubic yards Dump Trailer
Pick-up Site Description:

8. Certification: I hereby certify that the enclosed sample and/or analytical data is representative of the waste. I also certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists and that all known or suspected hazards have been disclosed. I authorize Aptus to act as the Generator's agent in matters concerning management of the aforementioned waste.

Date 3-7-90 Authorized Signature
Title Manager Remedial Services

Comments:

Please attach any Material Safety Sheets, laboratory analyses, handling precautions, and comments which apply to the waste.

APTUS RESERVES THE RIGHT TO REJECT ANY MATERIAL THAT DOES NOT CONFORM TO THE INFORMATION GIVEN ABOVE.
NON-CONFORMING MATERIAL WILL BE HANDLED AT AN EXTRA CHARGE OR RETURNED TO THE GENERATOR AT THEIR EXPENSE.

WHITE ENVIRONMENTAL AFFAIRS | YELLOW OPERATIONS | PINK SALES | GOLD CUSTOMER

Incineration

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET WORKSET

Return this completed workset to:

_____

_____

_____

_____

GENERAL INSTRUCTIONS

This workset contains two forms:

- **GENERATOR'S WASTE MATERIAL PROFILE SHEET**
- **GENERATOR'S CERTIFICATION OF REPRESENTATIVE SAMPLE**

1. The Generator's Waste Material Profile Sheet is a two-sided form. Both sides must be completed.
2. This document is perforated so the forms and instructions may be separated for your convenience. If the forms are separated, take special precautions to assure that they are used to describe and identify **ONLY** the same waste.
3. Shaded areas on the forms are for Chemical Waste Management use only.
4. Answers must be made to all questions with the exception of PART I, "Reclamation, Fuels or Incineration Parameters," which is optional.
5. Answers must be printed in ink or typed (elite, 12-pitch).
6. Instructions are included to help you complete these forms correctly. The letters and numbers which precede each instruction refer to the lettered and numbered entries on the forms.
7. Both the Generator's Waste Material Profile Sheet and the Generator's Certification of Representative Sample forms must be signed.
8. The Certification of Representative Sample and its peel off Sample Label must be used to identify **ONLY** the sample of the waste described on the attached Generator's Waste Material Profile Sheet.
9. The peel off label must be completed before removal from the form and applied to the container which actually holds the sample material - **not** on the shipping carton - even if the sample already has another label.
10. If you have any questions concerning the use of these forms, please contact your Chemical Waste Management Sales Representative or the office that issued this workset to you.
11. **MAKE A COPY OF THESE FORMS FOR YOUR RECORDS. SEND THE ORIGINALS AND ALL ATTACHMENTS TO THE ADDRESS SHOWN ABOVE OR TO THE ADDRESS PROVIDED BY YOUR CHEMICAL WASTE MANAGEMENT, INC. SALES REPRESENTATIVE.**

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

This information is required for a waste to be considered for transportation, treatment, storage or disposal. It is used to determine if the waste may be transported, treated, stored or disposed in a legal, safe, and environmentally sound manner. This information will be maintained in strict confidence. **ANSWERS MUST BE MADE TO ALL QUESTIONS** and must be printed in ink or typed (elite, 12-pitch). A response of "NONE," or "NA" can be made if appropriate.

Shaded areas are for CWM use only.

PART A. GENERAL INFORMATION

1. GENERATOR NAME - Enter the name of the generating facility.
2. GENERATOR USEPA ID - Enter the twelve character alpha-numeric descriptor issued by the USEPA to the facility generating the waste
3. FACILITY ADDRESS - Enter the street address (not P.O. Box) of the generating facility.
4. GENERATOR STATE ID - Enter the descriptor issued by the state to the facility generating the waste (if applicable).
5. ZIP CODE - Enter the generating facility's five or nine digit zip code.
6. TECHNICAL CONTACT - Enter the name of a person who will answer technical questions about the waste.
7. TITLE - Enter technical contact's title.
8. PHONE - Enter technical contact's telephone number.

PART B. MAIL CHEMICAL WASTE MANAGEMENT INC. INVOICES TO:

1. If you want the invoice mailed to the same address as in PART A, check "Generating Facility." If you want the invoices mailed elsewhere, then indicate the name, phone, and address, as shown in numbers 2 through 5.
2. COMPANY NAME - Enter the name of the company to which you want the invoices sent.
3. PHONE - Enter the telephone number of the company to which you want the invoices sent.
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PART C.

1. NAME OF WASTE - Enter a name that is generally descriptive of this waste (e.g., cyanide plating waste, paint sludge, PCB contaminated dirt, still bottoms, wastewater treatment sludge).
2. PROCESS GENERATING WASTE - List the specific process/operation or source that generates the waste (e.g., metal plating operation, paint spray booth, PCB spill, solvent recovery, wastewater treatment plant).
3. DIOXIN WASTE - Treatment, storage or disposal of Dioxin wastes requires special attention. If this waste is a USEPA listed Dioxin waste, indicate "YES" and contact your Chemical Waste Management Sales Representative. If "YES", **DO NOT COMPLETE THE REMAINDER OF THIS FORM.**

PART D. PHYSICAL CHARACTERISTICS OF WASTE

1. COLOR - Describe the color of the waste (e.g., blue, clear, varies).
2. ODOR - **DO NOT SMELL THE WASTE!** If the waste has a known incidental odor, then describe it (e.g., acrid, pungent, solvent, sweet).
3. PHYSICAL STATE - If the four boxes provided do not apply, a descriptive phrase may be entered after "Other" (e.g., gas).
4. LAYERS - Check all applicable boxes. Multi-layered means more than two layers (e.g., oil/water/sludge). Bi-layered means the waste is comprised of two layers which may or may not be of the same phase (e.g., oil/water, solvent/sludge). Single phased means the waste is homogeneous.
5. SPECIFIC GRAVITY - Indicate the range. The specific gravity of water is 1.0. Most organics are less than 1.0. Chlorinated solvents, most inorganics and paint sludge are greater than 1.0.
6. FREE LIQUIDS - Check "YES" if liquid is usually present when packaging for shipment and estimate the percent of liquid volume. Check "NO" if there are no free liquids as defined by the Paint Filter Test (SW 846 Method 9095).
7. pH - Indicate for liquid or liquid portions of the waste. Check the appropriate boxes which cover the pH of the waste. Use the "Range" space if appropriate. For solid or organic liquid wastes, indicate the pH of a 10% aqueous solution of the waste if applicable. Check "NA" for non-water soluble materials (e.g., bricks, dismantled tanks, empty drums, gases, rocks).
8. LIQUID FLASH POINT - Indicate the liquid flash point obtained using the appropriate testing method (40CFR261.21).The liquid flash point is important from a transportation standpoint (49CFR173.115).Solids with flammable potential should be identified in PART G.3 (e.g., Pyrophoric, RCRA Reactive, Other).

PART E. CHEMICAL COMPOSITION

1. List all organic and/or inorganic components of the waste using **specific chemical names.** If trade names are used, attach Material Safety Data Sheets or other documents which adequately describe the composition of the waste. For each component, estimate the range (in percents) in which the component is present. In case of extreme pH (2 or less or 12.5 or greater) indicate specific acid or caustic species present. This list must include any hazardous components listed in PARTs F, G, and/or H which exceed 10,000 ppm (1%). The total of the maximum values of the components must be greater than or equal to 100% including water, earth, etc.
2. If this waste contains PCBs, cyanides, phenolics or sulfides, indicate the concentration(s). If this waste does not contain these constituents, indicate by checking the "NONE" box(es) which apply. If the concentration of these constituents is unknown, please indicate "UNK" under "ACTUAL."

PART F. METALS

Indicate whether metals content was determined by EP Tox (extraction procedure toxicity)/TCLP (Toxicity Characteristics Leaching Procedure) from 40CFR261-Appendix II or represents the total metals. For each metal, check only one box indicating that the metal content will not exceed the stated amount or enter the actual metal content indicated by your test results in the "ACTUAL" column in parts per million. If you know a metal is **NOT** present, indicate by writing "NA" under "ACTUAL." An actual concentration of zero is not appropriate. If metal concentrations are unknown, please indicate "UNK" under "ACTUAL."

PART G. OTHER HAZARDOUS CHARACTERISTICS

1. Indicate by checking the appropriate box.
2. Indicate by checking the appropriate box. If "YES," indicate the concentration in PART E.
3. Indicate if this waste is any of the following:
   RCRA REACTIVE - As defined by 40CFR261.
   WATER REACTIVE - Reacts violently with water to form toxic gases, vapors, or fumes in a quantity sufficient to present a danger to human health or the environment.

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

J54510

J 54510

Waste Profile Sheet Code

CWM Location of Original: _____ (SHADED AREAS FOR CWM USE ONLY) **CWM Sales Rep. #:** _____

A. GENERAL INFORMATION

1. Generator Name: Universal Oil Processing UOP
2. Generator USEPA ID: NJD 002005106
3. Facility Address: Intersection of State Rutes 20 & 17, East Rutherford, NJ
4. Generator State ID: _____
5. Zip Code: 07073
6. Technical Contact: Mark Kamilow
7. Title: Manager, Remedial Serv
8. Phone: (201) 455 - 2119

B. MAIL CHEMICAL WASTE MANAGEMENT, INC. INVOICES TO

1. ☐ Generating Facility (A, above), or
2. Company Name: CWM ENRAC
3. Phone: (609) 243 - 7800
4. Address: 100 Nassau Park Blvd, Princeton, NJ, Attn: Kara Fasulo
5. Zip Code: 08540

C.

1. **NAME OF WASTE** Filter Cake/Soil Sediment
2. **PROCESS GENERATING WASTE** Waste Water Settling Pond
3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
   ☐ Yes ☒ No If yes, **DO NOT COMPLETE** this form. Contact your Chemical Waste Management, Inc. sales representative for assistance.

D. PHYSICAL CHARACTERISTICS OF WASTE

1. Color:	2. Does the waste have a strong incidental odor?	3. Physical State @ 70°F:	4. Layers:	5. Specific Gravity:	6. Free Liquids:
Brown/ Black	☒ No ☐ Yes If known, describe:	☒ Solid ☐ Semi-Solid ☐ Liquid ☐ Powder Other:	☐ Multilayered ☐ Bi-layered ☒ Single Phased	Range: 1.0 - 1.4	☐ Yes ☒ No Volume: %

7. pH: ☐ ≤ 2 ☐ > 2-4 ☐ 4-7 ☐ 7 ☒ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range _____ - _____ ☐ NA

8. Liquid Flash Point: ☐ < 73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☒ ≥ 200°F ☐ None ☐ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION

1.	RANGE MIN. - MAX.	
Filter Cake Solids containing:	-	%
Peat, Soils, Lime, Miscellaneous Debris	-	%
(i.e. Wood, Stone, PPE)	80 - 90	%
	-	%
	-	%
Solidified Soil/Peat	10 - 20	%
	-	%
	-	%
	-	%
	-	%
	-	%
	-	%

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%. **TOTAL:** 110 %

2. Indicate if this waste contains any of the following:

	NONE	or LESS THAN	or ACTUAL	
PCB's	☐	☐ < 50 ppm	< 500	ppm
Cyanides	☐	☐ < 50 ppm		ppm
Phenolics	☐	☐ < 50 ppm	13	ppm
Sulfides	☐	☐ < 50 ppm	< 500	ppm

Reactivity

F. METALS

Indicate if this waste contains any of the following:
1. ☒ EP TOX/TCLP or 2. ☐ Total

METAL	LESS THAN	or	ACTUAL (Parts Per Million)
Arsenic	☒ < 5	☐ < 500	
Barium	☒ < 100		
Cadmium	☒ < 1	☐ < 100	
Chromium	☒ < 5		
Lead	☒ < 5	☐ < 500	
Mercury	☒ < 0.2	☐ < 20	
Selenium	☒ < 1	☐ < 100	
Silver	☒ < 5		
Chromium-Hex	☒ < 5	☐ < 500	
Copper	☐ < 5		
Nickel	☐ < 5	☐ < 134	
Thallium	☐ < 5	☐ < 130	
Zinc	☐ < 5		
	☐ <		
	☐ <		
	☐ <		

TURN PAGE AND COMPLETE SIDE 2

Chemical Waste Management, Inc.

GENERATOR'S CERTIFICATION OF REPRESENTATIVE SAMPLE

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

J54510

J 54510

Waste Profile Sheet Code

CWM Location of Original: _____ (SHADED AREAS FOR CWM USE ONLY) CWM Sales Rep. #: _____

This completed form must be returned, with the representative sample, to:

_____

_____

_____

_____

INSTRUCTIONS FOR COMPLETING THIS FORM ARE FOUND ON THE OPPOSITE SIDE. In order to determine whether Chemical Waste Management, Inc. can accept the special waste described in the Generator's Waste Material Profile Sheet referenced above, you must obtain and supply us with a representative sample of the waste. We may analyze the sample to verify the information that you have provided to us. A representative sample is defined as a sample obtained using any of the applicable sampling methods specified in 40 CFR 261-Appendix I or an equivalent method. Collect a representative sample of your waste and complete the form below. Apply the peel off label and ship your sample along with this form to the address noted above. If you have any questions regarding obtaining a representative sample of your waste, please refer to the instructions for this form, or contact your Chemical Waste Management, Inc. sales representative.

A. SAMPLING METHOD (Indicate which method was employed)

If sampling requirement has been waived by Chemical Waste Management, Inc., do not complete this Generator's Certification of Representative Sample form.

1. ☒ I have obtained a representative sample of the waste material described in the Generator's Waste Material Profile Sheet referenced above according to the sampling methods specified in 40 CFR 261-Appendix I.
2. ☐ I have obtained a representative sample of the waste material described in the Generator's Waste Material Profile Sheet referenced above using a method equivalent to the sampling methods described in 40 CFR 261-Appendix I.

B. SAMPLE SOURCE (e.g., drum, lagoon, pit, pond, tank, vat) Lagoon

C. SAMPLE LABEL — COMPLETE LABEL BEFORE REMOVING

J54510

1. Waste Profile Sheet Code:		1. Waste Profile Sheet Code:
2. [redacted] Generator's Name:	UOP / Allied Signal	2. Generator's Name:
3. [redacted] Name of Waste:	Filter Cake	3. Name of Waste:
4. [redacted] Sample Hour/Date:		4. Sample Hour/Date:
5. [redacted] Sampler's Signature:	J. Mark Hamilton	5. Sampler's Signature:

6. Print Sampler's Name: J. Mark Hamilton
7. Sampler's Title: _____
8. Sampler's Employer (if CWM, see D. below): _____

D. WITNESS VERIFICATION (if required) In most circumstances you will be obtaining the sample. However, in those cases in which Chemical Waste Management, Inc. obtains the sample, one of your employees must be present to direct the particular source to be sampled, to witness the sampling, and to complete this Part D.

I was personally present during the sampling described. I directed the waste source to be sampled, and I verify the information noted above.

1. Witness' Signature: _____
2. Witness' Name: _____ 3. Witness' Title: _____
4. Witness' Employer: _____ 5. Date: _____

Incineration

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET WORKSET

Return this completed workset to:

_____

_____

_____

_____

GENERAL INSTRUCTIONS

This workset contains two forms:

- **GENERATOR'S WASTE MATERIAL PROFILE SHEET**
- **GENERATOR'S CERTIFICATION OF REPRESENTATIVE SAMPLE**

1. The Generator's Waste Material Profile Sheet is a two-sided form. Both sides must be completed.
2. This document is perforated so the forms and instructions may be separated for your convenience. If the forms are separated, take special precautions to assure that they are used to describe and identify **ONLY** the same waste.
3. Shaded areas on the forms are for Chemical Waste Management use only.
4. Answers must be made to all questions with the exception of PART I, "Reclamation, Fuels or Incineration Parameters," which is optional.
5. Answers must be printed in ink or typed (elite, 12-pitch).
6. Instructions are included to help you complete these forms correctly. The letters and numbers which precede each instruction refer to the lettered and numbered entries on the forms.
7. Both the Generator's Waste Material Profile Sheet and the Generator's Certification of Representative Sample forms must be signed.
8. The Certification of Representative Sample and its peel off Sample Label must be used to identify **ONLY** the sample of the waste described on the attached Generator's Waste Material Profile Sheet.
9. The peel off label must be completed before removal from the form and applied to the container which actually holds the sample material - **not** on the shipping carton - even if the sample already has another label.
10. If you have any questions concerning the use of these forms, please contact your Chemical Waste Management Sales Representative or the office that issued this workset to you.
11. **MAKE A COPY OF THESE FORMS FOR YOUR RECORDS. SEND THE ORIGINALS AND ALL ATTACHMENTS TO THE ADDRESS SHOWN ABOVE OR TO THE ADDRESS PROVIDED BY YOUR CHEMICAL WASTE MANAGEMENT, INC. SALES REPRESENTATIVE.**

Chemical Waste Management, Inc.
GENERATOR'S WASTE MATERIAL PROFILE SHEET

This information is required for a waste to be considered for transportation, treatment, storage or disposal. It is used to determine if the waste may be transported, treated, stored or disposed in a legal, safe, and environmentally sound manner. This information will be maintained in strict confidence. **ANSWERS MUST BE MADE TO ALL QUESTIONS** and must be printed in ink or typed (elite, 12-pitch). A response of "NONE," or "NA" can be made if appropriate.

Shaded areas are for CWM use only.

PART A. GENERAL INFORMATION

1. GENERATOR NAME - Enter the name of the generating facility.
2. GENERATOR USEPA ID - Enter the twelve character alpha-numeric descriptor issued by the USEPA to the facility generating the waste
3. FACILITY ADDRESS - Enter the street address (not P.O. Box) of the generating facility.
4. GENERATOR STATE ID - Enter the descriptor issued by the state to the facility generating the waste (if applicable).
5. ZIP CODE - Enter the generating facility's five or nine digit zip code.
6. TECHNICAL CONTACT - Enter the name of a person who will answer technical questions about the waste.
7. TITLE - Enter technical contact's title.
8. PHONE - Enter technical contact's telephone number.

PART B. MAIL CHEMICAL WASTE MANAGEMENT INC. INVOICES TO:

1. If you want the invoice mailed to the same address as in PART A, check "Generating Facility." If you want the invoices mailed elsewhere, then indicate the name, phone, and address, as shown in numbers 2 through 5.
2. COMPANY NAME - Enter the name of the company to which you want the invoices sent.
3. PHONE - Enter the telephone number of the company to which you want the invoices sent.
4. ADDRESS - Enter the address of the company to which you want the invoices sent.
5. ZIP CODE - Enter the five or nine digit zip code of the company to which you want the invoices sent.

PART C.

1. NAME OF WASTE - Enter a name that is generally descriptive of this waste (e.g., cyanide plating waste, paint sludge, PCB contaminated dirt, still bottoms, wastewater treatment sludge).
2. PROCESS GENERATING WASTE - List the specific process/operation or source that generates the waste (e.g., metal plating operation, paint spray booth, PCB spill, solvent recovery, wastewater treatment plant).
3. DIOXIN WASTE - Treatment, storage or disposal of Dioxin wastes requires special attention. If this waste is a USEPA listed Dioxin waste, indicate "YES" and contact your Chemical Waste Management Sales Representative. If "YES", **DO NOT COMPLETE THE REMAINDER OF THIS FORM.**

PART D. PHYSICAL CHARACTERISTICS OF WASTE

1. COLOR - Describe the color of the waste (e.g., blue, clear, varies).
2. ODOR - **DO NOT SMELL THE WASTE!** If the waste has a known incidental odor, then describe it (e.g., acrid, pungent, solvent, sweet).
3. PHYSICAL STATE - If the four boxes provided do not apply, a descriptive phrase may be entered after "Other" (e.g., gas).
4. LAYERS - Check all applicable boxes. Multi-layered means more than two layers (e.g., oil/water/sludge). Bi-layered means the waste is comprised of two layers which may or may not be of the same phase (e.g., oil/water, solvent/sludge). Single phased means the waste is homogeneous.
5. SPECIFIC GRAVITY - Indicate the range. The specific gravity of water is 1.0. Most organics are less than 1.0. Chlorinated solvents, most inorganics and paint sludge are greater than 1.0.
6. FREE LIQUIDS - Check "YES" if liquid is usually present when packaging for shipment and estimate the percent of liquid volume. Check "NO" if there are no free liquids as defined by the Paint Filter Test (SW 846 Method 9095).
7. pH - Indicate for liquid or liquid portions of the waste. Check the appropriate boxes which cover the pH of the waste. Use the "Range" space if appropriate. For solid or organic liquid wastes, indicate the pH of a 10% aqueous solution of the waste if applicable. Check "NA" for non-water soluble materials (e.g., bricks, dismantled tanks, empty drums, gases, rocks).
8. LIQUID FLASH POINT - Indicate the liquid flash point obtained using the appropriate testing method (40CFR261.21).The liquid flash point is important from a transportation standpoint (49CFR173.115).Solids with flammable potential should be identified in PART G.3 (e.g., Pyrophoric, RCRA Reactive, Other).

PART E. CHEMICAL COMPOSITION

1. List all organic and/or inorganic components of the waste using **specific chemical names.** If trade names are used, attach Material Safety Data Sheets or other documents which adequately describe the composition of the waste. For each component, estimate the range (in percents) in which the component is present. In case of extreme pH (2 or less or 12.5 or greater) indicate specific acid or caustic species present. This list must include any hazardous components listed in PARTs F, G, and/or H which exceed 10,000 ppm (1%). The total of the maximum values of the components must be greater than or equal to 100% including water, earth, etc.
2. If this waste contains PCBs, cyanides, phenolics or sulfides, indicate the concentration(s). If this waste does not contain these constituents, indicate by checking the "NONE" box(es) which apply. If the concentration of these constituents is unknown, please indicate "UNK" under "ACTUAL."

PART F. METALS

Indicate whether metals content was determined by EP Tox (extraction procedure toxicity)/TCLP (Toxicity Characteristics Leaching Procedure) from 40CFR261-Appendix II or represents the total metals. For each metal, check only one box indicating that the metal content will not exceed the stated amount or enter the actual metal content indicated by your test results in the "ACTUAL" column in parts per million. If you know a metal is **NOT** present, indicate by writing "NA" under "ACTUAL." An actual concentration of zero is not appropriate. If metal concentrations are unknown, please indicate "UNK" under "ACTUAL."

PART G. OTHER HAZARDOUS CHARACTERISTICS

1. Indicate by checking the appropriate box.
2. Indicate by checking the appropriate box. If "YES," indicate the concentration in PART E.
3. Indicate if this waste is any of the following:
   RCRA REACTIVE - As defined by 40CFR261.
   WATER REACTIVE - Reacts violently with water to form toxic gases, vapors, or fumes in a quantity sufficient to present a danger to human health or the environment.

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

J54510

J 54510
Waste Profile Sheet Code

CWM Location of Original: _____ (SHADED AREAS FOR CWM USE ONLY) CWM Sales Rep. #: _____

A. GENERAL INFORMATION

1. Generator Name: Universal Oil Processing UOP
2. Generator USEPA ID: NJD 002005106
3. Facility Address: Intersection of State Rutes 20 & 17 East Rutherford, NJ
4. Generator State ID: _____
5. Zip Code: 07073
6. Technical Contact: Mark Kamilow
7. Title: Manager, Remedial Serv
8. Phone: (201) 455 - 2119

B. MAIL CHEMICAL WASTE MANAGEMENT, INC. INVOICES TO 1. ☐ Generating Facility (A, above), or

2. Company Name: CWM ENRAC
3. Phone: (609) 243 - 7800
4. Address: 100 Nassau Park Blvd Princeton, NJ Attn: Kara Fasulo
5. Zip Code: 08540

C. 1. **NAME OF WASTE** Filter Cake/Soil Sediment

2. **PROCESS GENERATING WASTE** Waste Water Settling Pond

3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
☐ Yes ☒ No If yes, **DO NOT COMPLETE** this form. Contact your Chemical Waste Management, Inc. sales representative for assistance.

D. PHYSICAL CHARACTERISTICS OF WASTE

1. Color:	2. Does the waste have a strong incidental odor?	3. Physical State @ 70°F:	4. Layers:	5. Specific Gravity:	6. Free Liquids:
Brown/ Black	☒ No ☐ Yes If known, describe:	☒ Solid ☐ Semi-Solid ☐ Liquid ☐ Powder Other:	☐ Multilayered ☐ Bi-layered ☒ Single Phased	Range: 1.0 - 1.4	☐ Yes ☒ No Volume: %

7. pH: ☐ ≤ 2 ☐ > 2-4 ☐ 4-7 ☐ 7 ☒ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range _____ - _____ ☐ NA

8. Liquid Flash Point: ☐ < 73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☒ ≥ 200°F ☐ None ☐ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION

1.	RANGE MIN. - MAX.	
Filter Cake Solids containing:	-	%
Peat, Soils, Lime, Miscellaneous Debris	-	%
(i.e. Wood, Stone, PPE)	80 - 90	%
	-	%
	-	%
Solidified Soil/Peat	10 - 20	%
	-	%
	-	%
	-	%
	-	%
	-	%
	-	%

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%. **TOTAL:** 110 %

2. Indicate if this waste contains any of the following:

	NONE	or LESS THAN	or ACTUAL	
PCB's	☐	☐ < 50 ppm	< 500	ppm
Cyanides	☐	☐ < 50 ppm	_____	ppm
Phenolics	☐	☐ < 50 ppm	13	ppm
Sulfides	☐	☐ < 50 ppm	< 500	ppm Reactivity

F. METALS Indicate if this waste contains any of the following:

1. ☒ EP TOX/TCLP or 2. ☐ Total

METAL	LESS THAN	or	ACTUAL (Parts Per Million)
Arsenic	☒ < 5	☐ < 500	
Barium	☒ < 100		
Cadmium	☒ < 1	☐ < 100	
Chromium	☒ < 5		
Lead	☒ < 5	☐ < 500	
Mercury	☒ < 0.2	☐ < 20	
Selenium	☒ < 1	☐ < 100	
Silver	☒ < 5		
Chromium-Hex	☒ < 5	☐ < 500	
Copper	☐ < 5		
Nickel	☐ < 5	☐ < 134	
Thallium	☐ < 5	☐ < 130	
Zinc	☐ < 5		
_____	☐ <		
_____	☐ <		
_____	☐ <		

Chemical Waste Management, Inc.

GENERATOR'S CERTIFICATION OF REPRESENTATIVE SAMPLE

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

J54510

J 54510

Waste Profile Sheet Code

CWM Location of Original: _____ (SHADED AREAS FOR CWM USE ONLY) **CWM Sales Rep. #:** _____

This completed form must be returned, with the representative sample, to:

_____

_____

_____

_____

INSTRUCTIONS FOR COMPLETING THIS FORM ARE FOUND ON THE OPPOSITE SIDE. In order to determine whether Chemical Waste Management, Inc. can accept the special waste described in the Generator's Waste Material Profile Sheet referenced above, you must obtain and supply us with a representative sample of the waste. We may analyze the sample to verify the information that you have provided to us. A representative sample is defined as a sample obtained using any of the applicable sampling methods specified in 40 CFR 261-Appendix I or an equivalent method. Collect a representative sample of your waste and complete the form below. Apply the peel off label and ship your sample along with this form to the address noted above. If you have any questions regarding obtaining a representative sample of your waste, please refer to the instructions for this form, or contact your Chemical Waste Management, Inc. sales representative.

A. SAMPLING METHOD (Indicate which method was employed)

If sampling requirement has been waived by Chemical Waste Management, Inc., do not complete this Generator's Certification of Representative Sample form.

1. ☒ I have obtained a representative sample of the waste material described in the Generator's Waste Material Profile Sheet referenced above according to the sampling methods specified in 40 CFR 261-Appendix I.
2. ☐ I have obtained a representative sample of the waste material described in the Generator's Waste Material Profile Sheet referenced above using a method equivalent to the sampling methods described in 40 CFR 261-Appendix I.

B. SAMPLE SOURCE (e.g., drum, lagoon, pit, pond, tank, vat) Lagoon

C. SAMPLE LABEL — COMPLETE LABEL BEFORE REMOVING

J54510

1. Waste Profile Sheet Code:		1. Waste Profile Sheet Code:
2. [redacted] Generator's Name:	UOP / Allied Signal	2. Generator's Name:
3. [redacted] Name of Waste:	Filter Cake	3. Name of Waste:
4. [redacted] Sample Hour/Date:		4. Sample Hour/Date:
5. [redacted] Sampler's Signature:	J. Mark Kamlow	5. Sampler's Signature:

6. Print Sampler's Name: J. Mark Kamlow
7. Sampler's Title: _____
8. Sampler's Employer (if CWM, see D. below): _____

D. WITNESS VERIFICATION (if required) In most circumstances you will be obtaining the sample. However, in those cases in which Chemical Waste Management, Inc. obtains the sample, one of your employees must be present to direct the particular source to be sampled, to witness the sampling, and to complete this Part D.

I was personally present during the sampling described. I directed the waste source to be sampled, and I verify the information noted above.

1. Witness' Signature: _____
2. Witness' Name: _____ 3. Witness' Title: _____
4. Witness' Employer: _____ 5. Date: _____

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

#J54513#

J 5-513

Waste Profile Sheet Code

CWM Location of Original: _____ (SHADED AREAS FOR CWM USE ONLY) CWM Sales Rep. #: _____

A. GENERAL INFORMATION

1. Generator Name: Universal Oil Processing UOP
2. Generator USEPA ID: ~~NJD~~ ~~002005106~~
3. Facility Address: Intersection of State Routes 20 & 17 East- Rutherford, NJ
4. Generator State ID: _____
5. Zip Code: 07073
6. Technical Contact: Mark Kamilow
7. Title: Mgr.-Remedial Serv
8. Phone: (201) 455 - 2119

B. MAIL CHEMICAL WASTE MANAGEMENT, INC. INVOICES TO

1. ☐ Generating Facility (A, above), or
2. Company Name: CWM ENRAC
3. Phone: (~~609~~ ~~243~~ - ~~7800~~
4. Address: 100 Nassau Park Blvd Princeton, NJ Attn: Kara Fasulo
5. Zip Code: 08540

C.

1. NAME OF WASTE: Waste Water
2. PROCESS GENERATING WASTE: Filter Press Filtrate/PreTreated Surface Water
3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
   ☐ Yes ☒ No If yes, **DO NOT COMPLETE** this form. Contact your Chemical Waste Management, Inc. sales representative for assistance.

D. PHYSICAL CHARACTERISTICS OF WASTE

1. Color:	2. Does the waste have a strong incidental odor?	3. Physical State @ 70°F:	4. Layers:	5. Specific Gravity:	6. Free Liquids:
Clear	☒ No ☐ Yes If known, describe:	☐ Solid ☐ Semi-Solid ☒ Liquid ☐ Powder Other:	☐ Multilayered ☐ Bi-layered ☒ Single Phased	Range: 1.0 -	☒ Yes ☐ No Volume: 100 %

7. pH: ☐ ≤ 2 ☐ > 2-4 ☐ 4-7 ☐ 7 ☒ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range _____ - _____ ☐ NA

8. Liquid Flash Point: ☐ < 73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☒ None ☐ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION

1.	RANGE MIN. - MAX.	
Water	99.5 - 100	%
Dissolved Solids	0 - 0.5	%
	-	%
	-	%
	-	%
	-	%
	-	%
	-	%
	-	%
	-	%
	-	%

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%. TOTAL: _____ %

2. Indicate if this waste contains any of the following:

	NONE	or LESS THAN	or ACTUAL
PCB's	☐	☐ < 50 ppm	< 1 ppm
Cyanides	☒	☐ < 50 ppm	_____ ppm
Phenolics	☒	☐ < 50 ppm	_____ ppm
Sulfides	☒	☐ < 50 ppm	_____ ppm

F. METALS Indicate if this waste contains any of the following:

1. ☐ EP TOX/TCLP or 2. ☐ Total

METAL	LESS THAN	or	ACTUAL (Parts Per Million)
Arsenic	☒ < 5	☐ < 500	
Barium	☒ < 100		
Cadmium	☒ < 1	☐ < 100	
Chromium	☒ < 5		
Lead	☒ < 5	☐ < 500	
Mercury	☒ < 0.2	☐ < 20	
Selenium	☒ < 1	☐ < 100	
Silver	☒ < 5		
Chromium-Hex	☒ < 5	☐ < 500	
Copper	☒ < 5		
Nickel	☒ < 5	☐ < 134	
Thallium	☒ < 5	☐ < 130	
Zinc	☒ < 5		
_____	☐ <		
_____	☐ <		
_____	☐ <		

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notification of PCB Activity

Form Approved
OMB No. xxxx-xxxx
Approval expires xx-xx-xx

No information on this form may be claimed as TSCA CBI.

Return To:

Chemical Regulation Branch
Office of Toxic Substances TS-798
U.S. Environmental Protection Agency
401 M St., SW
Washington, DC 20460

For Official Use Only

TSCA PCB ID Number

I. Name of Facility
Universal Oil Processing UOP

Name of Owner of Facility
Allied-Signal Inc.

II. EPA Identification Number *(If already assigned under RCRA)*
NJD 002 005106

III. Facility Mailing Address *(Street or PO Box, City, State, & ZIP Code)*
Mark Kamilow - Meyer 3
Allied-Signal Inc.
P.O. Box 1139R
Morristown, NJ 07962-1139

IV. Location of Facility *(No. & Street, City, State, & ZIP Code)*
Intersection of State Routes
20 & 17
East Rutherford, NJ 07970

V. Installation Contact *(Name and Title)*
Mark Kamilow - Manager of Remedial Services

Telephone Number *(Area Code and Number)*
(201) 455-2119

VI. Type of PCB Activity *(Mark 'X' in appropriate box. See instructions.)*

CERCLA IRM

- [X] A. Generator with onsite storage facility
- [ ] B. Storer *(Commercial)*
- [ ] C. Transporter
- [ ] D. Permitted Disposer

VII. Certification

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Signature	Name and Official Title *(Type or print)*	Date Signed
J. Mark Kamilow	J. Mark Kamilow-Mgr. Remedial Serv	3-30-90

Paperwork Reduction Act Notice

The public reporting burden for this collection of information is estimated to average 1.5 hours per response. This estimate includes time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information to the Chief, Information Policy Branch (PM-223), US Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503, marked ATTENTION: Desk Officer for EPA.

SHIPPING RECORDS - UOP RUTHERFORD, NJ - SOLIDS

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE WEIGHT
A0001	APTUS	900511	WILLS	NJA0757882	14.04
A0002	APTUS	900511	WILLS	NJA0757878	18.61
A0003	APTUS	900511	WILLS	NJA0757879	14.63
A0004	APTUS	900518	WILLS	NJA0757877	13.79
A0005	APTUS	900518	WILLS	NJA0757881	13.59
A0006	APTUS	900518	WILLS	NJA0757883	15.45
E0007	EMELLE	900516	JACK GRAY	CWMA499023	15.25
E0008	EMELLE	900516	JACK GRAY	CWMA499024	15.84
E0009	EMELLE	900516	JACK GRAY	CWMA499025	16.19
E0010	EMELLE	900516	JACK GRAY	CWMA499026	15.47
E0011	EMELLE	900518	DART	CWMA499022	23.51
E0012	EMELLE	900518	DART	CWMA499021	19.15
E0013	EMELLE	900518	DART	CWMA499020	23.21
E0014	EMELLE	900518	DART	CWMA499019	17.76
E0015	EMELLE	900518	DART	CWMA499018	22.07
E0016	EMELLE	900518	DART	CWMA499017	23.9
E0017	EMELLE	900518	DART	CWMA499016	22.69
E0018	EMELLE	900518	DART	CWMA499015	22.37
E0019	EMELLE	900518	DART	CWMA499014	21.32
E0020	EMELLE	900518	DART	CWMA499013	19.79
E0021	EMELLE	900518	DART	CWMA499012	17.7
E0022	EMELLE	900518	DART	CWMA499011	22.5
E0023	EMELLE	900518	DART	CWMA499010	21.13
E0024	EMELLE	900518	DART	CWMA499009	20.6
E0025	EMELLE	900518	DART	CWMA499008	15.83
E0026	EMELLE	900518	DART	CWMA499069	17.4
E0027	EMELLE	900518	DART	CWMA499068	13.32
E0028	EMELLE	900518	DART	CWMA499067	24.82
E0029	EMELLE	900530	DART	CWMA499048	23.72
E0030	EMELLE	900530	DART	CWMA499049	22.39
E0031	EMELLE	900530	DART	CWMA499050	21.54
E0032	EMELLE	900530	DART	CWMA499051	21.57
E0033	EMELLE	900530	DART	CWMA499052	23.34
E0034	EMELLE	900530	DART	CWMA499053	17.43
E0035	EMELLE	900530	DART	CWMA499054	22.42
E0036	EMELLE	900530	DART	CWMA499055	20.83
E0037	EMELLE	900530	DART	CWMA499056	21.6
E0038	EMELLE	900530	DART	CWMA499057	23.84
E0039	EMELLE	900530	DART	CWMA499058	21.29
E0040	EMELLE	900530	DART	CWMA504916	19.51
E0041	EMELLE	900530	DART	CWMA504917	19.73
E0042	EMELLE	900530	DART	CWMA504918	19.92
E0043	EMELLE	900530	DART	CWMA504920	21.3
E0044	EMELLE	900530	DART	CWMA504921	18.88
E0045	EMELLE	900530	DART	CWMA504922	23.02
E0046	EMELLE	900530	DART	CWMA504923	19.71
E0047	EMELLE	900530	DART	CWMA504926	17.58
E0048	EMELLE	900530	DART	CWMA504927	23.59
E0049	EMELLE	900530	DART	CWMA504928	24.74

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE WEIGHT
E0050	EMELLE	900530	DART	CWMA504929	20.82
E0051	EMELLE	900530	DART	CWMA504930	17.73
E0052	EMELLE	900530	DART	CWMA504931	22.83
E0053	EMELLE	900530	DART	CWMA504932	21.66
E0054	EMELLE	900601	DART	CWMA504962	21.83
E0055	EMELLE	900601	DART	CWMA504961	23.72
E0056	EMELLE	900601	DART	CWMA504960	20.74
E0057	EMELLE	900601	DART	CWMA504959	19.62
E0058	EMELLE	900601	DART	CWMA504958	23.28
E0059	EMELLE	900601	DART	CWMA504957	22.22
E0060	EMELLE	900601	DART	CWMA504956	22
E0061	EMELLE	900601	DART	CWMA504955	21.79
E0062	EMELLE	900601	DART	CWMA504954	20.98
E0063	EMELLE	900601	DART	CWMA504953	22.94
E0064	EMELLE	900601	DART	CWMA504952	21.69
E0065	EMELLE	900601	DART	CWMA504951	26.83
E0066	EMELLE	900601	DART	CWMA504950	22.14
E0067	EMELLE	900601	DART	CWMA504949	24.55
E0068	EMELLE	900601	DART	CWMA504948	23.44
E0069	EMELLE	900601	DART	CWMA504947	21.5
E0070	EMELLE	900601	DART	CWMA504946	21.53
E0071	EMELLE	900601	DART	CWMA504945	24.73
E0072	EMELLE	900604	DART	CWMA504981	24.07
E0073	EMELLE	900604	DART	CWMA504982	23.28
E0074	EMELLE	900604	DART	CWMA504983	23.31
E0075	EMELLE	900604	DART	CWMA504984	27.28
E0076	EMELLE	900604	DART	CWMA504985	26.31
E0077	EMELLE	900604	DART	CWMA504986	25.36
E0078	EMELLE	900604	DART	CWMA504987	23.46
E0079	EMELLE	900604	DART	CWMA504988	22.35
E0080	EMELLE	900604	DART	CWMA504989	21.84
E0081	EMELLE	900604	DART	CWMA504990	18
E0082	EMELLE	900604	DART	CWMA504991	22.23
E0083	EMELLE	900604	DART	CWMA504992	23.09
E0084	EMELLE	900604	DART	CWMA504993	23.8
E0085	EMELLE	900604	DART	CWMA504994	21.82
E0086	EMELLE	900604	DART	CWMA504995	21.71
E0087	EMELLE	900604	DART	CWMA504996	23.83
E0088	EMELLE	900604	DART	CWMA504997	22.18
E0089	EMELLE	900604	DART	CWMA504998	23.04
E0090	EMELLE	900604	DART	CWMA504999	23.69
E0091	EMELLE	900604	DART	CWMA505000	21.94
E0092	EMELLE	900608	DART	CWMA504937	22.84
E0093	EMELLE	900608	DART	CWMA504938	21.32
E0094	EMELLE	900608	DART	CWMA504939	22.68
E0095	EMELLE	900608	DART	CWMA504940	20.75
E0096	EMELLE	900608	DART	CWMA504941	21.58
E0097	EMELLE	900608	DART	CWMA504963	22.02
E0098	EMELLE	900608	DART	CWMA504964	22.35

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE WEIGHT
E0099	EMELLE	900608	DART	CWMA504965	21.55
E0100	EMELLE	900608	DART	CWMA504966	24.77
E0101	EMELLE	900608	DART	CWMA504967	22.76
E0102	EMELLE	900608	DART	CWMA504968	20.91
E0103	EMELLE	900608	HORWITH	CWMA504969	22.24
E0104	EMELLE	900608	HORWITH	CWMA504970	22.25
E0105	EMELLE	900608	HORWITH	CWMA504971	23.35
E0106	EMELLE	900608	HORWITH	CWMA504980	23.76
E0107	EMELLE	900608	HORWITH	CWMA504972	24
E0108	EMELLE	900608	DART	CWMA504974	23.21
E0109	EMELLE	900608	DART	CWMA504975	22.66
E0110	EMELLE	900608	HORWITH	CWMA504976	22.94
E0111	EMELLE	900608	DART	CWMA504977	23.1
E0112	EMELLE	900612	WILLS	CWMA483625	22.59
E0113	EMELLE	900612	WILLS	CWMA483626	23.1
E0114	EMELLE	900612	WILLS	CWMA483627	22.34
E0115	EMELLE	900612	WILLS	CWMA483628	26.77
E0116	EMELLE	900612	JACK GRAY	CWMA483629	20.46
E0117	EMELLE	900612	JACK GRAY	CWMA483630	21.13
E0118	EMELLE	900612	WILLS	CWMA483631	23.37
E0119	EMELLE	900612	WILLS	CWMA483632	23.24
E0120	EMELLE	900612	WILLS	CWMA483633	22.22
E0121	EMELLE	900612	WILLS	CWMA483635	22.14
E0122	EMELLE	900612	WILLS	CWMA483636	23.09
E0123	EMELLE	900612	WILLS	CWMA483637	22.2
E0124	EMELLE	900612	WILLS	CWMA483638	23.24
E0125	EMELLE	900612	WILLS	CWMA483639	21.98
E0126	EMELLE	900612	WILLS	CWMA483640	21.56
E0127	EMELLE	900612	WILLS	CWMA483641	22.63
E0128	EMELLE	900612	JACK GRAY	CWMA483642	24.14
E0129	EMELLE	900612	JACK GRAY	CWMA483643	23.35
E0130	EMELLE	900612	JACK GRAY	CWMA483644	21.03
E0131	EMELLE	900612	JACK GRAY	CWMA483645	23.81
E0132	EMELLE	900615	DART	CWMA483649	23.67
E0133	EMELLE	900615	DART	CWMA483650	20.97
E0134	EMELLE	900615	DART	CWMA483651	22.37
E0135	EMELLE	900615	DART	CWMA483652	22.78
E0136	EMELLE	900615	DART	CWMA483653	19.41
E0137	EMELLE	900615	DART	CWMA483654	21.77
E0138	EMELLE	900615	DART	CWMA483655	23.13
E0139	EMELLE	900615	DART	CWMA483656	21.25
E0140	EMELLE	900615	DART	CWMA575082	24.86
E0141	EMELLE	900615	DART	CWMA575083	17.2
E0142	EMELLE	900615	DART	CWMA575084	23.84
E0143	EMELLE	900615	DART	CWMA575085	21.19
E0144	EMELLE	900615	DART	CWMA575086	15.43
E0145	EMELLE	900615	DART	CWMA575087	15.64
E0146	EMELLE	900615	DART	CWMA575088	23.82
E0147	EMELLE	900615	DART	CWMA575089	20.54

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE WEIGHT
E0148	EMELLE	900615	DART	CWMA575090	22.61
E0149	EMELLE	900615	DART	CWMA575091	22.84
E0150	EMELLE	900615	DART	CWMA575092	18.23
E0151	EMELLE	900615	DART	CWMA575093	21.69
E0152	EMELLE	900615	DART	CWMA575094	14.7
E0153	EMELLE	900615	DART	CWMA575095	28.84
E0154	EMELLE	900615	DART	CWMA575096	11.6
E0155	EMELLE	900615	DART	CWMA575097	22.15
E0156	EMELLE	900615	DART	CWMA575098	17.59
E0157	EMELLE	900625	DART	CWMA499094	24.19
E0158	EMELLE	900625	DART	CWMA499095	22.68
E0159	EMELLE	900625	DART	CWMA499096	22.61
E0160	EMELLE	900625	DART	CWMA499098	23.2
E0161	EMELLE	900625	DART	CWMA499099	23.85
E0162	EMELLE	900625	DART	CWMA499100	26.22
E0163	EMELLE	900625	DART	CWMA499097	23.04
E0164	EMELLE	900625	DART	CWMA499093	23.74
E0165	EMELLE	900625	DART	CWMA547545	23.39
E0166	EMELLE	900625	DART	CWMA499037	22.93
E0167	EMELLE	900625	DART	CWMA547546	19.01
E0168	EMELLE	900625	DART	CWMA499039	20.46
E0169	EMELLE	900625	DART	CWMA499041	22.61
E0170	EMELLE	900625	DART	CWMA547544	22.83
E0171	EMELLE	900625	DART	CWMA547543	21.2
E0172	EMELLE	900625	DART	CWMA547542	23.81
E0173	EMELLE	900625	DART	CWMA547541	33.01
E0174	EMELLE	900625	DART	CWMA547540	21.56
E0175	EMELLE	900625	DART	CWMA547539	20.68
E0176	EMELLE	900625	DART	CWMA499042	20
E0177	EMELLE	900625	DART	CWMA499089	19
E0178	EMELLE	900625	DART	CWMA499090	20.85
E0179	EMELLE	900625	DART	CWMA499091	16.52
E0180	EMELLE	900625	DART	CWMA499092	20.44
E0181	EMELLE	900625	DART	CWMA504978	19.07
E0182	EMELLE	900705	DART	CWMA582948	25.34
E0183	EMELLE	900705	DART	CWMA582925	26.28
E0184	EMELLE	900705	DART	CWMA582928	23.83
E0185	EMELLE	900705	DART	CWMA582929	24.45
E0186	EMELLE	900705	DART	CWMA582933	30.36
E0187	EMELLE	900705	DART	CWMA582934	23.9
E0188	EMELLE	900705	DART	CWMA582935	32.58
E0189	EMELLE	900705	DART	CWMA582936	22.46
E0190	EMELLE	900705	DART	CWMA582937	23.18
E0191	EMELLE	900705	DART	CWMA582938	23.99
E0192	EMELLE	900705	DART	CWMA582940	23.23
E0193	EMELLE	900705	DART	CWMA582941	22.72
E0194	EMELLE	900705	DART	CWMA582943	23.1
E0195	EMELLE	900705	DART	CWMA582944	23.06
E0196	EMELLE	900705	DART	CWMA582945	23.11

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE WEIGHT
E0197	EMELLE	900705	DART	CWMA582946	22.76
E0198	EMELLE	900705	DART	CWMA582952	22.68
E0199	EMELLE	900705	DART	CWMA582953	27.94
E0200	EMELLE	900705	DART	CWMA582955	23.77
E0201	EMELLE	900705	DART	CWMA582957	22.01
E0202	EMELLE	900705	DART	CWMA582958	23.87
E0203	EMELLE	900705	DART	CWMA582959	26.57
E0204	EMELLE	900705	DART	CWMA582960	27.28
E0205	EMELLE	900705	DART	CWMA582961	24.81
E0206	EMELLE	900705	DART	CWMA582956	19.57
E0207	EMELLE	900709	HORWITH	CWMA582949	23.36
E0208	EMELLE	900709	HORWITH	CWMA582950	22.37
E0209	EMELLE	900709	HORWITH	CWMA582951	22.68
E0210	EMELLE	900709	HORWITH	CWMA582947	24.33
E0211	EMELLE	900709	HORWITH	CWMA582942	24.4
E0212	EMELLE	900709	HORWITH	CWMA582939	24.68
E0213	EMELLE	900709	HORWITH	CWMA582931	24.43
E0214	EMELLE	900709	HORWITH	CWMA582923	23.63
E0215	EMELLE	900709	HORWITH	CWMA582924	23.91
E0216	EMELLE	900709	HORWITH	CWMA582926	24.72
E0217	EMELLE	900709	HORWITH	CWMA582927	27.44
E0218	EMELLE	900709	JACK GRAY	CWMA582919	22.94
E0219	EMELLE	900709	HORWITH	CWMA582922	22.14
E0220	EMELLE	900709	JACK GRAY	CWMA582920	22.36
E0221	EMELLE	900709	JACK GRAY	CWMA582921	22.78
E0222	EMELLE	900709	JACK GRAY	CWMA582918	20.96
E0223	EMELLE	900709	HORWITH	CWMA582917	21.15
E0224	EMELLE	900709	HORWITH	CWMA582916	21.96
E0225	EMELLE	900709	HORWITH	CWMA582915	19.53
E0226	EMELLE	900709	HORWITH	CWMA582914	19.31
E0227	EMELLE	900709	HORWITH	CWMA582913	21.58
E0228	EMELLE	900709	JACK GRAY	CWMA582912	19.85
E0229	EMELLE	900709	HORWITH	CWMA582911	21.76
E0230	EMELLE	900716	HORWITH	CWMA583230	20.01
E0231	EMELLE	900716	HORWITH	CWMA583229	20.11
E0232	EMELLE	900716	HORWITH	CWMA583221	17.45
E0233	EMELLE	900716	HORWITH	CWMA583217	21.84
E0234	EMELLE	900716	HORWITH	CWMA583218	23.81
E0235	EMELLE	900716	HORWITH	CWMA583215	21.99
E0236	EMELLE	900716	HORWITH	CWMA583216	19.96
E0237	EMELLE	900716	HORWITH	CWMA544325	20.12
E0238	EMELLE	900716	HORWITH	CWMA544328	20.39
E0239	EMELLE	900716	HORWITH	CWMA544327	21.4
E0240	EMELLE	900716	HORWITH	CWMA544326	23.26
E0241	EMELLE	900717	HORWITH	CWMA547583	23.76
E0242	EMELLE	900717	HORWITH	CWMA547584	23.41
E0243	EMELLE	900717	HORWITH	CWMA547585	24.25
E0244	EMELLE	900717	HORWITH	CWMA547586	21.96
E0245	EMELLE	900717	JACK GRAY	CWMA547587	21.57

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE WEIGHT
E0246	EMELLE	900717	HORWITH	CWMA547588	23.35
E0247	EMELLE	900717	WILLS	CWMA547589	21.7
E0248	EMELLE	900717	WILLS	CWMA547590	20.7
E0249	EMELLE	900717	JACK GRAY	CWMA547591	21.64
E0250	EMELLE	900717	JACK GRAY	CWMA547592	21.77
E0251	EMELLE	900717	JACK GRAY	CWMA583228	24.64
E0252	EMELLE	900717	WILLS	CWMA547594	25.46
E0253	EMELLE	900717	WILLS	CWMA547595	24.76
E0254	EMELLE	900717	WILLS	CWMA547596	20.92
E0255	EMELLE	900717	WILLS	CWMA547597	23.1
E0256	EMELLE	900717	JACK GRAY	CWMA583242	20.93
E0257	EMELLE	900717	JACK GRAY	CWMA583243	21.34
E0258	EMELLE	900717	JACK GRAY	CWMA583244	26.29
E0259	EMELLE	900717	JACK GRAY	CWMA582962	23.48
E0260	EMELLE	900717	WILLS	CWMA582969	22.41
E0261	EMELLE	900717	JACK GRAY	CWMA582970	27.01
E0262	EMELLE	900717	JACK GRAY	CWMA582977	26.74
E0263	EMELLE	900717	JACK GRAY	CWMA582976	25.24
E0264	EMELLE	900717	HORWITH	CWMA852975	24.38
E0265	EMELLE	900717	JACK GRAY	CWMA582974	24.51
E0266	EMELLE	900717	JACK GRAY	CWMA582973	24.7
E0267	EMELLE	900717	JACK GRAY	CWMA582972	25.34
E0268	EMELLE	900717	JACK GRAY	CWMA582971	24.18
E0269	EMELLE	900717	JACK GRAY	CWMA583000	21.38
E0270	EMELLE	900717	JACK GRAY	CWMA582999	21.87
E0271	EMELLE	900717	JACK GRAY	CWMA582998	22.02
E0272	EMELLE	900719	JACK GRAY	CWMA582997	23.43
E0273	EMELLE	900719	HORWITH	CWMA582996	23.48
E0274	EMELLE	900719	HORWITH	CWMA582995	24.63
E0275	EMELLE	900719	HORWITH	CWMA582994	22.57
E0276	EMELLE	900719	HORWITH	CWMA582993	22.35
E0277	EMELLE	900719	HORWITH	CWMA582992	26.56
E0278	EMELLE	900719	WILLS	CWMA582991	26.77
E0279	EMELLE	900719	WILLS	CWMA582990	20.42
E0280	EMELLE	900719	WILLS	CWMA582989	23.2
E0281	EMELLE	900719	WILLS	CWMA582988	24.7
E0282	EMELLE	900719	WILLS	CWMA582987	34.51
E0283	EMELLE	900719	WILLS	CWMA582986	30.3
E0284	EMELLE	900720	JACK GRAY	CWMA582485	21.9
E0285	EMELLE	900720	JACK GRAY	CWMA582486	24.75
E0286	EMELLE	900720	JACK GRAY	CWMA582484	19.58
E0287	EMELLE	900720	JACK GRAY	CWMA582483	23.62
E0288	EMELLE	900720	HORWITH	CWMA582482	25.08
E0289	EMELLE	900720	HORWITH	CWMA582481	23.45
E0290	EMELLE	900720	JACK GRAY	CWMA582480	20.12
E0291	EMELLE	900720	DART	CWMA582479	23.11
E0292	EMELLE	900720	HORWITH	CWMA582478	20.33
E0293	EMELLE	900720	HORWITH	CWMA582477	22.26
E0294	EMELLE	900720	HORWITH	CWMA582476	17.71

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE WEIGHT
E0295	EMELLE	900720	HORWITH	CWMA582475	20.15
E0296	EMELLE	900720	DART	CWMA582474	21.91
E0297	EMELLE	900720	HORWITH	CWMA582473	22.03
E0298	EMELLE	900720	DART	CWMA582472	20.25
E0299	EMELLE	900720	DART	CWMA582470	24.65
E0300	EMELLE	900807	DART	CWMA595529	22.1
E0301	EMELLE	900807	WILLS	CWMA595528	29.29
E0302	EMELLE	900807	DART	CWMA595533	23.52
E0303	EMELLE	900807	WILLS	CWMA595526	21.96
E0304	EMELLE	900807	DART	CWMA595525	23.61
E0305	EMELLE	900807	HORWITH	CWMA595524	25.15
E0306	EMELLE	900807	HORWITH	CWMA595523	22.44
E0307	EMELLE	900807	HORWITH	CWMA595522	22.69
E0308	EMELLE	900807	HORWITH	CWMA595521	20.24
E0309	EMELLE	900807	WILLS	CWMA582498	22.77
E0310	EMELLE	900807	JACK GRAY	CWMA582495	21.9
E0311	EMELLE	900807	DART	CWMA582494	17.51
E0312	EMELLE	900807	WILLS	CWMA582493	26.61
E0313	EMELLE	900807	WILLS	CWMA582492	24.09
E0314	EMELLE	900807	JACK GRAY	CWMA582491	22.03
E0315	EMELLE	900807	WILLS	CWMA582490	26.35
E0316	EMELLE	900807	WILLS	CWMA582489	24.57
E0317	EMELLE	900807	WILLS	CWMA595552	20.86
E0318	EMELLE	900807	HORWITH	CWMA595551	22.63
E0319	EMELLE	900807	HORWITH	CWMA595550	20.59
E0320	EMELLE	900807	HORWITH	CWMA595549	20.12
E0321	EMELLE	900807	HORWITH	CWMA595548	22.72
E0322	EMELLE	900807	HORWITH	CWMA595547	23.14
E0323	EMELLE	900807	HORWITH	CWMA595546	23.22
E0324	EMELLE	900807	JACK GRAY	CWMA595545	23.51
E0325	EMELLE	900807	DART	CWMA595544	21.9
E0326	EMELLE	900807	HORWITH	CWMA595543	22.83
E0327	EMELLE	900807	HORWITH	CWMA595542	24.66
E0328	EMELLE	900807	HORWITH	CWMA595541	24.73
E0329	EMELLE	900807	HORWITH	CWMA595540	23.62
E0330	EMELLE	900807	WILLS	CWMA595539	25.81
E0331	EMELLE	900807	HORWITH	CWMA595538	24.24
E0332	EMELLE	900807	DART	CWMA595537	20.4
E0333	EMELLE	900807	DART	CWMA595536	21.1
E0334	EMELLE	900807	JACK GRAY	CWMA595535	22.01
E0335	EMELLE	900807	WILLS	CWMA595534	20.41
E0336	EMELLE	900807	WILLS	CWMA595530	18.61
E0337	EMELLE	900807	WILLS	CWMA595532	21.64
E0338	EMELLE	900807	DART	CWMA595531	21.22
E0339	EMELLE	900807	HORWITH	CWMA595554	24.82
E0340	EMELLE	900807	WILLS	CWMA595555	21.1
E0341	EMELLE	900807	JACK GRAY	CWMA595556	25.29
E0342	EMELLE	900807	JACK GRAY	CWMA595557	22.53
E0343	EMELLE	900807	JACK GRAY	CWMA595558	21.59

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE WEIGHT
E0344	EMELLE	900807	WILLS	CWMA595553	23.55
E0345	EMELLE	900808	HORWITH	CWMA595559	23.36
E0346	EMELLE	900807	HORWITH	CWMA595560	25.32
E0347	EMELLE	900807	WILLS	CWMA596002	26.57
E0348	EMELLE	900807	WILLS	CWMA596003	25.9
E0349	EMELLE	900807	JACK GRAY	CWMA596004	25.93
E0350	EMELLE	900807	WILLS	CWMA596005	26.76
E0351	EMELLE	900807	WILLS	CWMA596006	22.98
E0352	EMELLE	900807	WILLS	CWMA596007	22.51
E0353	EMELLE	900807	HORWITH	CWMA596008	23.48
E0354	EMELLE	900807	WILLS	CWMA596009	21.67
E0355	EMELLE	900807	WILLS	CWMA596010	25.57
E0356	EMELLE	900807	WILLS	CWMA596011	23.76
E0357	EMELLE	900807	HORWITH	CWMA596012	21.29
E0358	EMELLE	900807	HORWITH	CWMA596013	21.63
E0359	EMELLE	900807	WILLS	CWMA596014	21.29
E0360	EMELLE	900807	JACK GRAY	CWMA596015	21.67
E0361	EMELLE	900807	HORWITH	CWMA596016	21.9
E0362	EMELLE	900807	HORWITH	CWMA596017	21.31
E0363	EMELLE	900807	HORWITH	CWMA596019	22.09
E0364	EMELLE	900807	HORWITH	CWMA596020	21.2
E0365	EMELLE	900807	WILLS	CWMA596021	19.6
E0366	EMELLE	900808	WILLS	CWMA596022	26.08
E0367	EMELLE	900808	WILLS	CWMA596023	27.5
E0368	EMELLE	900808	WILLS	CWMA596024	19.79
E0369	EMELLE	900808	HORWITH	CWMA596025	19.26
E0370	EMELLE	900808	JACK GRAY	CWMA596026	20.42
E0371	EMELLE	900808	JACK GRAY	CWMA596027	24.23
E0372	EMELLE	900808	JACK GRAY	CWMA596028	24.76
E0373	EMELLE	900808	WILLS	CWMA596029	25.83
E0374	EMELLE	900808	WILLS	CWMA596030	19.89
E0375	EMELLE	900808	WILLS	CWMA596031	26.86
E0376	EMELLE	900808	WILLS	CWMA596070	29.4
E0377	EMELLE	900808	WILLS	CWMA596069	28.35
E0378	EMELLE	900808	WILLS	CWMA596068	25.86
E0379	EMELLE	900808	WILLS	CWMA596067	26.96
E0380	EMELLE	900808	WILLS	CWMA596066	23.89
E0381	EMELLE	900808	WILLS	CWMA596065	25.46
E0382	EMELLE	900828	HORWITH	CWMA583287	26.43
E0383	EMELLE	900828	HORWITH	CWMA583288	24.86
Total Solids Shipped					8602.88
APTUS Shipments					90.11
Emelle Shipments					8512.77

SHIPPING RECORDS - UOP RUTHERFORD, NJ - WATER

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE GAL
N0001	NEWARK	900601	CHEM WASTE	NJA0785355	5071
N0002	NEWARK	900601	CHEM WASTE	NJA0785356	5500
N0003	NEWARK	900601	CHEM WASTE	NJA0785357	5811
N0004	NEWARK	900604	CHEM WASTE	NJA0757915	5500
N0005	NEWARK	900604	CHEM WASTE	NJA0757914	5500
N0006	NEWARK	900604	CHEM WASTE	NJA0757913	5623
N0007	NEWARK	900604	CHEM WASTE	NJA0757912	5614
N0008	NEWARK	900604	CHEM WASTE	NJA0757911	5313
N0009	NEWARK	900605	CHEM WASTE	NJA0757916	5228
N0010	NEWARK	900605	CHEM WASTE	NJA0757917	5591
N0011	NEWARK	900606	CHEM WASTE	NJA0785393	5247
N0012	NEWARK	900606	CHEM WASTE	NJA0785394	5603
N0013	NEWARK	900606	CHEM WASTE	NJA0785395	5514
N0014	NEWARK	900606	CHEM WASTE	NJA0785396	5565
N0015	NEWARK	900607	CHEM WASTE	NJA0785397	4746
N0016	NEWARK	900607	CHEM WASTE	NJA0785398	4796
N0017	NEWARK	900607	CHEM WASTE	NJA0785399	4634
N0018	NEWARK	900607	CHEM WASTE	NJA0785400	5344
N0019	NEWARK	900608	CHEM WASTE	NJA0785401	4794
N0020	NEWARK	900608	CHEM WASTE	NJA0785402	2856
N0021	NEWARK	900608	CHEM WASTE	NJA0785403	5556
N0022	NEWARK	900608	CHEM WASTE	NJA0785404	4345
N0029	NEWARK	900611	CHEM WASTE	NJA0757987	5278
N0030	NEWARK	900611	CHEM WASTE	NJA0757986	5328
N0031	NEWARK	900611	CHEM WASTE	NJA0757985	5314
N0032	NEWARK	900611	CHEM WASTE	NJA0757988	5445
N0033	NEWARK	900612	CHEM WASTE	NJA1001941	5613
N0034	NEWARK	900612	CHEM WASTE	NJA0785447	5623
N0035	NEWARK	900612	CHEM WASTE	NJA0785238	5615
N0036	NEWARK	900612	CHEM WASTE	NJA0785239	5630
N0037	NEWARK	900613	CHEM WASTE	NJA1001938	5878
N0038	NEWARK	900613	CHEM WASTE	NJA1001937	4806
N0039	NEWARK	900613	CHEM WASTE	NJA1001936	5935
N0040	NEWARK	900613	CHEM WASTE	NJA1001935	4600
N0041	NEWARK	900614	CHEM WASTE	NJA1001930	5622
N0042	NEWARK	900614	CHEM WASTE	NJA1001931	5248
N0043	NEWARK	900614	CHEM WASTE	NJA1001932	5541
N0044	NEWARK	900614	CHEM WASTE	NJA1001933	3930
N0045	NEWARK	900615	CHEM WASTE	NJA1001934	4514
N0046	NEWARK	900615	CHEM WASTE	NJA1001939	3950
N0047	NEWARK	900615	CHEM WASTE	NJA1001940	5219
N0048	NEWARK	900615	CHEM WASTE	NJA1001942	5090
N0049	NEWARK	900618	CHEM WASTE	NJA0757993	4834
N0050	NEWARK	900618	CHEM WASTE	NJA0757994	4548
N0051	NEWARK	900618	CHEM WASTE	NJA0758000	4586
N0052	NEWARK	900618	CHEM WASTE	NJA0757992	5431
N0053	NEWARK	900618	CHEM WASTE	NJA0757996	5318
N0054	NEWARK	900619	CHEM WASTE	NJA0757989	5320

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE GAL
N0055	NEWARK	900619	CHEM WASTE	NJA1001943	4581
N0056	NEWARK	900619	CHEM WASTE	NJA1001944	5356
N0057	NEWARK	900619	CHEM WASTE	NJA1001945	5600
N0058	NEWARK	900619	CHEM WASTE	NJA1001946	5500
N0059	NEWARK	900619	CHEM WASTE	NJA1001947	5594
N0060	NEWARK	900620	CHEM WASTE	NJA1001948	5489
N0061	NEWARK	900620	CHEM WASTE	NJA1001949	4674
N0062	NEWARK	900620	CHEM WASTE	NJA1001950	5334
N0063	NEWARK	900620	CHEM WASTE	NJA1001951	4803
N0064	NEWARK	900620	CHEM WASTE	NJA0757997	4825
N0065	NEWARK	900620	CHEM WASTE	NJA0757998	5500
N0066	NEWARK	900620	CHEM WASTE	NJA1001953	4760
N0067	NEWARK	900620	CHEM WASTE	NJA1001952	5368
N0068	NEWARK	900620	CHEM WASTE	NJA0758010	5195
N0069	NEWARK	900620	CHEM WASTE	NJA0758009	5500
N0070	NEWARK	900621	CHEM WASTE	NJA0757999	5426
N0071	NEWARK	900621	CHEM WASTE	NJA0757901	5339
N0072	NEWARK	900621	CHEM WASTE	NJA0757902	5343
N0073	NEWARK	900621	CHEM WASTE	NJA0758002	4763
N0074	NEWARK	900621	CHEM WASTE	NJA0758003	5507
N0075	NEWARK	900621	CHEM WASTE	NJA0758004	5602
N0076	NEWARK	900621	CHEM WASTE	NJA0758005	5312
N0077	NEWARK	900622	CHEM WASTE	NJA0758006	5534
N0078	NEWARK	900622	CHEM WASTE	NJA0758007	5217
N0079	NEWARK	900622	CHEM WASTE	NJA0758008	5670
N0080	NEWARK	900622	CHEM WASTE	NJA0785419	5500
N0081	NEWARK	900622	CHEM WASTE	NJA0785418	5247
N0082	NEWARK	900622	CHEM WASTE	NJA0785417	5500
N0083	NEWARK	900622	CHEM WASTE	NJA0785416	5411
N0084	NEWARK	900622	CHEM WASTE	NJA0785415	5642
N0085	NEWARK	900625	CHEM WASTE	NJA0785414	4712
N0086	NEWARK	900625	CHEM WASTE	NJA0785413	5422
N0087	NEWARK	900625	CHEM WASTE	NJA0785412	4607
N0088	NEWARK	900625	CHEM WASTE	NJA0785411	5511
N0089	NEWARK	900625	CHEM WASTE	NJA0757899	5446
N0090	NEWARK	900626	CHEM WASTE	NJA0757900	5666
N0091	NEWARK	900626	CHEM WASTE	NJA0785405	5647
N0092	NEWARK	900626	CHEM WASTE	NJA0785406	5443
N0093	NEWARK	900626	CHEM WASTE	NJA0785407	5522
N0094	NEWARK	900626	CHEM WASTE	NJA0785408	4672
N0095	NEWARK	900626	CHEM WASTE	NJA0785409	4904
N0096	NEWARK	900626	CHEM WASTE	NJA0785410	4846
N0097	NEWARK	900626	CHEM WASTE	NJA0757904	5480
N0098	NEWARK	900626	CHEM WASTE	NJA0757903	4940
N0099	NEWARK	900626	CHEM WASTE	NJA0757906	4660
N0099	NEWARK	900730	CHEM WASTE	NJA0942880	4114
N0100	NEWARK	900627	CHEM WASTE	NJA0757905	5411
N0100	NEWARK	900730	CHEM WASTE	NJA0942879	1462

MANIFEST NUMBER	TSD FACILITY	SHIP DATE	HAULER	MANIFEST #	INVOICE GAL
N0101	NEWARK	900627	CHEM WASTE	NJA0757897	4576
N0102	NEWARK	900627	CHEM WASTE	NJA0757898	5500
N0103	NEWARK	900627	CHEM WASTE	NJA0757895	5500
N0104	NEWARK	900627	CHEM WASTE	NJA0757896	4825
N0105	NEWARK	900627	CHEM WASTE	NJA0757894	5597
N0106	NEWARK	900627	CHEM WASTE	NJA0757893	5387
N0107	NEWARK	900627	CHEM WASTE	NJA0757892	5497
N0108	NEWARK	900627	CHEM WASTE	NJA0757891	5584
N0109	NEWARK	900627	CHEM WASTE	NJA0757909	5500
N0110	NEWARK	900627	CHEM WASTE	NJA0757910	5500
N0111	NEWARK	900628	CHEM WASTE	NJA0757907	5617
N0112	NEWARK	900628	CHEM WASTE	NJA0757908	5380
N0113	NEWARK	900628	CHEM WASTE	NJA1001979	4779
N0114	NEWARK	900628	CHEM WASTE	NJA1001978	5512
N0115	NEWARK	900628	CHEM WASTE	NJA1001986	5647
N0116	NEWARK	900628	CHEM WASTE	NJA1001987	5495
N0117	NEWARK	900628	CHEM WASTE	NJA1001988	5562
N0118	NEWARK	900628	CHEM WASTE	NJA1001991	5668
N0119	NEWARK	900628	CHEM WASTE	NJA1001989	5617
N0120	NEWARK	900628	CHEM WASTE	NJA1001990	5441
N0121	NEWARK	900628	CHEM WASTE	NJA1001984	4662
N0122	NEWARK	900628	CHEM WASTE	NJA1001985	4839
N0123	NEWARK	900628	CHEM WASTE	NJA1001982	1278
N0124	NEWARK	900629	CHEM WASTE	NJA1001983	5083
N0125	NEWARK	900629	CHEM WASTE	NJA1001981	5024
N0126	NEWARK	900629	CHEM WASTE	NJA1001980	5176
N0127	NEWARK	900629	CHEM WASTE	NJA1002031	5793
N0128	NEWARK	900629	CHEM WASTE	NJA1002030	4729
N0129	NEWARK	900629	CHEM WASTE	NJA1002029	5134
N0130	NEWARK	900703	CHEM WASTE	NJA1002028	5500
N0131	NEWARK	900703	CHEM WASTE	NJA1002027	5485
N0132	NEWARK	900703	CHEM WASTE	NJA1002026	5500
N0133	NEWARK	900703	CHEM WASTE	NJA1002025	5500
N0134	NEWARK	900705	CHEM WASTE	NJA1002024	5500
N0135	NEWARK	900705	CHEM WASTE	NJA1002023	5500
TOTAL GAL					678411

Please type or print in BLOCK letters. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
UNIVERSAL OIL PROCESSING U.O.P.
INTERSECTION OF STATE ROUTES 20617
4. Generator's Phone (201) 438-2119 E. RUTHERFORD N.J. 07073

5. Transporter 1 Company Name | 6. US EPA ID Number
WILLS TRUCKING INC. | N J D 0 6 8 9 1 3 4 0 5

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number
APTUS ENVIRONMENTAL SERVICES
HIGHWAY 169 NORTH P.O. BOX 1320
COFFEYVILLE KS. 67337

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	R.Q. HAZARDOUS SUBSTANCE SOLID N.O.S. (POLYCHLORINATED BIPHENYLS) NA-9188	0 0 1	T	0 0 5 2	Y
b.					
c.					
d.					

GENERATOR

15. Special Handling Instructions and Additional Information
WO# 64238
PROFILE# 00001737

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
DAVID HYNES				

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
James Tapp				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

6 — GENERATOR MAIL TO - TSD'S STATE

In case of emergency call N.J. Dept. of Environmental Protection, (609) 292-5900 (Day) (609) 292-7172 (Night)

Please type or [illegible] OMB No. [illegible]

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. [illegible]	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
UNIVERSAL OIL PRODUCTS U.O.P.
INTERSECTION OF STATE ROUTES 20&17

4. Generator's Phone (201) 435-[illegible] E. RUTHERFORD N.J. 07073

[redacted]

5. Transporter 1 Company Name
WILLS TRUCKING INC.
6. US EPA ID Number [illegible]

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
APTUS ENVIRONMENTAL SERVICES
HIGHWAY 169 NORTH P.O. BOX 1328
COFFEYVILLE KS. 67337
10. US EPA ID Number [illegible]

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	R.Q. HAZARDOUS SUBSTANCE SOLID N.O.S. ORM-E (POLYCHLORINATED BIPHENYLS) NA-9188	[illegible]	[illegible]	12,[illegible]	K
b.					
c.					
d.					

[redacted]

15. Special Handling Instructions and Additional Information
WO# 6A238 [illegible] 838 [illegible]
PROFILE# [illegible] [illegible] STATE OF [illegible] NEW JERSEY

16. GENERATOR'S CERTIFICATION: [illegible] described above by proper shipping name and [illegible] for transport by highway according to applicable [illegible]
If I am a large quantity [illegible] generated to the degree I have determined to be economically practical [illegible] currently available to me which minimizes the present and future threat to human [illegible] made a good faith effort to minimize my waste generation and select the best waste management [illegible]

Printed/Typed Name [illegible] | Signature [illegible] | Month Day Year [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name [illegible] | Signature [illegible] | Month Day Year [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space
Section C. per John Thompson [illegible] phone 5/24/90.
Changing weight to kilograms a[illegible] w/Nick Daly per phone 5/24/90.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name MIKEY MEANS | Signature [illegible] | Month Day Year 05 21 90

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

3 — TSD MAIL TO - GENERATOR

In case of an emergency or spill immediately call the [illegible] and the N.J. Dept. of Environmental Protection, (609) 292-5560 (Day) (609) 292-7172 (Night)

October 11th, 1990

APTUS

Aptus
Environmental Services

P.O. Box 1328
Coffeyville, KS 67337
(316) 251-6380
FAX (316) 251-7498
Sales FAX (316) 251-1095
Incinerator FAX (316) 251-0089

CERTIFICATE OF DISPOSAL

NO. 2487

UNIVERSAL OIL PROCESSING
INTERSECTION OF STATE RT 20&17
E. RUTHERFORD, NJ 07073

A. THIS IS TO CERTIFY THAT THE HAZARDOUS SUBSTANCE MANIFESTED TO APTUS ON APTUS DOCUMENT #838UU WAS DISPOSED OF IN ACCORDANCE WITH 40 CFR 761 AS OF 9/22/90. ATTACHED IS A DETAIL REPORT WHICH IDENTIFIES THE DATE(S) OF DISPOSAL AND THE PROCESS UTILIZED FOR EACH WASTE LISTED.

B. UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR THE MAKING OR SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR REPRESENTATIONS (18 U.S. C. 1001 and 15 U.S. C. 2615), I CERTIFY THAT THE INFORMATION CONTAINED IN OR ACCOMPANYING THIS DOCUMENT IS TRUE, ACCURATE AND COMPLETE. AS TO THE IDENTIFIED SECTION(S) (A.) OF THIS DOCUMENT FOR WHICH I CANNOT PERSONALLY VERIFY TRUTH AND ACCURACY, I CERTIFY AS THE COMPANY OFFICIAL HAVING SUPERVISORY RESPONSIBILITY FOR THE PERSONS WHO, ACTING UNDER MY DIRECT INSTRUCTIONS, MADE THE VERIFICATION THAT THIS INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

EPA ID # KSD980964993

BRIAN BROSNAN
MANAGER, ENVIRONMENTAL AFFAIRS

Aptus

DETAIL REPORT

generator
UNIVERSAL OIL PROCESSING
INTERSECTION OF STATE RT 208 17
E. RUTHERFORD, NJ 07073

EPA # NJ0002005106
Phone: 201 445 2119
MARK KAMILOW
012123

correspondent
CHEMICAL WASTE MANAGEMENT
100 MASSA PARK BOULVARD
PRINCETON, NJ 08540

EPA #
Phone: 201-465-6848
NICK DALY
008090

order # 64259
Aptus Doc. # 838UU
Cust. Manifest: 40005
State Manifest: NJA0757881
Date of report: 11-OCT-1990
Date checked in: 5/21/90
Salesman: MANCAN, DON

Hold back: 0

LNE	DEST	TYPE	QNT	DESCRIPTION	SER/DRUM	CONC	UNIT STORE	WEIGHT QUAN	UNIT PL	LOC	DR PL FU SENT	FACILITY	MANSENT	DESTROY	CO/REC	CO/SENT	CAT	DATE/TIME
1	INCIN	DEBI	1	FILTERCAKE			4/28/90 27180	27180.00	LBS	C INC	5/21/90	Incinerator,Colleyville, KS	C900U	9/22/90	10/3/90	10/11/90		30-may-1990 12:13:41

HAZARDOUS WASTE MANIFEST

(As Required By The Alabama Department of Environmental Management)

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N J D 0 0 2 0 0 5 1 0 6 | Manifest Document No. E0007

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. CWMA 488023

3. Generator's Name and Mailing Address
UNIVERSAL OIL PROCESSING U.O.P.
INTERSECTIONS OF STATE ROUTES 20&17
EAST RUTHERFORD N.J. 07073

4. Generator's Phone (201) 455-2119

5. Transporter 1 Company Name: Jack Gray Inc.
6. US EPA ID Number: IWD042534875

C. State Transporter's ID
D. Transporter's Phone (201) 1[illegible]-[illegible]

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
Emelle Facility
Alabama Highway 17 at Mile Marker 163
Emelle, Alabama 35459

10. US EPA ID Number: A L D 0 0 0 6 2 2 4 6 4

G. State Facility's ID
H. Facility's Phone: 205/652-9721

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. R.Q. HAZARDOUS SUBSTANCE SOLID N.O.S. ORM-E NA-9188 (POLYCHLORINATED BIPHENYLS) ADEM#CWM 041691-2059 CWM Profile Number J54512	001	DT	00020	Y	C-387
b. CWM Profile Number			13,725 00003	KG	
c. CWM Profile Number			5/18/90 (H)		
d. CWM Profile Number					

J. Additional Descriptions for Materials Listed Above
FILTER CAKE/SOIL SEDIMENT
EXCAVATION DATE: (5/12/90)
GREATER THAN 50 PPM

K. Handling Codes for Wastes Listed Above
a. L c.
b. d.

15. Special Handling Instructions and Additional Information
STATE OF ORIGIN: NEW JERSEY
* Send Manifest to P.O. Box 1139-R Morristown NJ 07962 ATT- M. Kamilow
Work Order #: (90051806 4) Purchase Order #

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: J Mark Kamilow | Signature: [signature] | Month Day Year: 05 16 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Phillip Lock | Signature: [signature] | Month Day Year: 05 16 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space
Corrected wt in Kg (Sec. 13) per Mark Kamelow via Nick Daily. 5/18/90 (H)

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: S. Smith | Signature: [signature] | Month Day Year: 05 17 90

EPA Form 8700-22 (Rev. 9-86) Previous edition is obsolete.

GENERATOR No. 2 (Must Accompany Shipment)

CHEMICAL WASTE MANAGEMENT, INC.
Emelle Facility
ALD000622464
P.O. Box 55
Emelle, Alabama 35459
Phone 205/652-9721

Universal Oil Processing
Intersection of State Routes 20&17
East Rutherford, NJ 07073

CERTIFICATE OF DISPOSAL

Chemical Waste Management, Inc. has received PCB material from Universal Oil Processing described on Alabama Hazardous Waste Manifest number CWMA 199022.

Chemical Waste Management, Inc. hereby certifies that the above described material (excluding PCB liquids) was landfilled on the 17th day of May, 1990 in compliance with State and Federal regulations.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Glory McAboy, Document Control Supervisor

May 22, 1990
Date Issued

Department of Environmental Protection
Division of Hazardous Waste Management
CN 028, Trenton, NJ

Please type or print in block letters.

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NJD002005106	
3. Generator's Name and Mailing Address: UNIVERSAL OIL PROCESSING U.O.P. INTERSECTION OF STATE ROUTES 20&17 EAST RUTHERFORD N.J. 07073		
4. Generator's Phone (201) 435-2119		
5. Transporter 1 Company Name: CHEMICAL WASTE MANAGEMENT INC.	6. US EPA ID Number: I L D 0 0 0 6 0 2 6 6 1	
7. Transporter 2 Company Name	8. US EPA ID Number	
9. Designated Facility Name and Site Address: CHEMICAL WASTE MGMT OF NEW JERSEY INC 100 LISTER AVE. NEWARK N.J. 07105	10. US EPA ID Number: N J D 0 8 9 2 1 6 7 9 0	

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS :NON-REGULATED PER D.O.T.		[illegible]	[illegible]	05500	[illegible]
b.					
c.					
d.					

15. Special Handling Instructions and Additional Information
STATE OF [illegible] [illegible] [illegible]
NORM [illegible] [illegible] [illegible] N.J. [illegible]

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month Day Year
[illegible]	[illegible]	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Edwin Rivera	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space
#13 amended to 507 Gal.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year
Nancy Dias	Nancy Dias	06 05 9[illegible]

GENERATOR / TRANSPORTER / FACILITY

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

3 — TSD MAIL TO - GENERATOR

SECTION 3. ENCLOSED IS A REPORT FILED WITH VARIOUS AGENCIES (LIST OF AGENCIES INCLUDED) OUTLINING THE EVENTS OF A UNION ASSAULT ON THE UOP PROPERTY WHICH LED TO A DIESEL FUEL SPILL AND SUBSEQUENT RESPONSE MEASURES.

Allied Signal

Allied-Signal Inc.
Engineered Materials Sector
P.O. Box 1139R
Morristown, NJ 07962-1139

DATE: May 15, 1990

TO: Distribution

FROM: Barbara M. Hansen

SUBJECT: Former UOP (Universal Oil Products Company) Site, East Rutherford, NJ

The May 14, 1990 written report concerning a 500 gallon diesel oil spill at the above referenced facility contained an error on page 1. Attached is the corrected report.

The last sentence in paragraph 2 should be the last sentence in paragraph 3.

Please accept my apologies for any inconvenience this may have caused.

Barbara M Hansen

BMH/sp

Attachment: NRC Report #20486
NJDEP Action Line Report #9005041315

The former UOP (Universal Oil Products) site in East Rutherford NJ is a New Jersey state cleanup site and is on the NPL. The site's former waste lagoons are presently under remediation. The lagoons are located on the bank of Ackerman's Creek.

To facilitate the remedial activities, several pieces of equipment are located on or near the lagoon. Generators, pumps, and an above ground diesel fuel storage tank are located near the lagoon and the creek.

The site had been the target of union picketing since May 2, 1990. On the morning of May 4, 1990 acts of vandalism were discovered at the site. Several pieces of equipment and the diesel fuel storage tank had been damaged. The containment area in which the tank was located was also damaged, thereby allowing the oil to spill onto the ground.

Approximately 500 gallons of diesel fuel were released as a result of the vandalism. At the time of discovery, a slight sheen could be seen on Ackerman's Creek. It was not known if any fuel had reached the creek to cause this sheen.

The spill was reported to the following agencies by Mr. James A. Schutt, Director Manufacturing Services, Allied Signal Inc. (201) 455-3888:

Agency	Contact	Report # (If Applicable)
National Response Center	Mr. Cherry	20486
NJDEP Action Line	Operator #6, "Carm"	9005041315
US Coast Guard Pollution Response	Petty Officers Hanger & Stendsen	N/A
East Rutherford Police	Capt. Doyle	N/A
Bergen County Police:	Sergeants J. Weber &	N/A
Office of Emergency Management	K. Madden	N/A
Bergen County Department of Health Services	Mr. J. Taradash Ms. V. Sapanara	N/A
NJDEP - Case Management	Mr. J. Schnitzer	N/A

In response to the spill, all visibly contaminated soils were excavated, placed in a containment area and covered with a tarp. An H-Nu meter (model PID-101) was used to check for residual contamination. None was identified.

To determine whether or not fuel spilled into Ackerman's Creek, a trench was dug parallel to and between the fuel tank area and Ackerman's Creek. The trench was approximately 25 feet long and 2 feet deep. Soils in the trench were not contaminated and exposed strata along the bank of the creek were also determined to be clean of fuel. Based upon this information, it is believed that no diesel fuel had reached Ackerman's Creek as was originally feared.

The sheen which had been observed on the water surface of Ackerman's Creek was discussed with Bergen County Department of Health Services' representatives. Environmental Specialist James Taradash stated that it was a routine occurrence to observe areas of colored sheens on the creek. It is believed that the observation of a sheen was not related to the fuel spill.

No anticipated acute or chronic health risks are associated with this incident; evacuation was not necessary. Emergency remedial activities were performed by the contracted remediation company, OH Materials. No emergency response was necessary from either local police or fire departments.

Since this incident, a new security force has been hired to patrol the site. The security service has been on site since May 8, 1990 and has replaced the service present at the time of the vandalism.

DISTRIBUTION

National Response Center
U. S. Coast Guard Hdqtrs.
Washington, DC 20593-0001
Report # 20486

Regional Administrator, Region II
US Environmental Protection Agency
Jacob K. Javits Federal Building
New York, New York 10278

Office of Hazardous Substances Control
Division of Water Resources
P.O. Box 2809
Trenton, NJ 08625
Attn: Discharge Confirmation
NJDEP Action Line Report #9005041315

Captain of Port of New York
Commanding Officer
Coast Guard Group of NY
Governors Island
New York, NY 10004
Attn: Pollution Response Office

Mayor of the City of E. Rutherford
1 Everett Place
E. Rutherford, NJ 07073

East Rutherford Police Dept.
312 Grove Street
E. Rutherford, NJ 07073

Bergen County Police
Office of Emergency Management
327 E. Ridgewood Ave.
Paramus, NJ 07652

Bergen County Dept of Health Services
327 Ridgewood Ave.
Paramus, NJ 07652-4895

James A. Schnitzer
Bureau of Federal Case Management
401 E. State Street
5th Floor West Wing
CN 028
Trenton, NJ 08625

Section 4. Enclosures

1) Summary of deviations from the Work Plan

2) Correspondence documentating these deviations.

3) Groundwater Discharge Permit (NJDEP)

Deviations from Workplan

1. PCB Hot Spot Removal - It was determined by the TSCA Section of Region II that the areas testing greater than 500 ppm PCB would be isolated and then disposed of accordingly (incineration). We constructed steel boxes with no top or bottom. These boxes were driven into the clay layer of the lagoon, thereby isolating the contents of the box from the remaining lagoon materials. The placement of these large boxes (16 x 16) was accomplished by utilizing a marsh buggy. This was essentially a track driven, pontoon mounted crane. The crane dropped the boxes into place then hammered them in using a drop weight. Once the boxes were in place a hydraulic pump was submerged into the box and the contents were transferred to the filter press system. All of the hot spots were removed and processed before any of the remaining materials were treated. The subsequent filter cake was sent to APTUS for incineration. The filter press equipment was decontaminated and put into service for the remaining lagoon material.

2. The work plan initially called for discharging treated filtrate to Ackerman's Creek. However, the Division of Water Resources could not process our permit application in a timely manner. The remediation proceeded with some treated filtrate being returned to the lagoon and the remainder sent off site to a TSD facility. This method would have been successful but extreme rainfall and occasional flooding into the lagoons precluded us from reducing the water level. At this point we applied for,and were granted, a groundwater discharge permit for spray irrigation. The filtrate was pumped through two carbon cells and stored in a tank. It was then pumped through a three inch hose and discharged through an agricultural irrigation nozzle known as a "Rain Bird". This raingun was mounted on a truck to maximize the spray distribution area. This operation was generally performed on hot sunny days to maximize the evaporation and to preclude runoff into the stream channels. This operation was successful in lowering the water in the lagoons to a manageable level.

3. At one point in the remediation the Eastern wall of the lagoon was showing signs of imminent failure. The workplan called for patching such areas with clay. However, the water level in the lagoon precluded us from delivering the clay to the point of stress. All materials would have had to be hand carted to the east berm. It was decided to utilize the natural clay underlying lagoon 2 to patch the berm. A large track driven backhoe was put into the lagoon and the berm was repaired from the inside. This procedure proved to be quite effective in controlling further deterioration of the lagoon wall.

4. The final sludge removal was to entail pushing the last inch or two of sludge to a corner of the lagoon where it would be pumped to the process. When pumping was no longer feasible cement dust was to be used to stabilize the last of the material. Our contractor changed dredges in the middle of the remediation. The new dredge had a large auger face. This turned up the bottom of the lagoon. This caused us to have a very heavy final 6" on the bottom. The material would not pump. We added about 800 tons of cement kiln dust to dry out this bottom material.

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
Trenton, N.J. 08625-0029

Office of
the Director

(609) 292-1637
Fax # (609) 984-7938

J. M. KAMILOW

JUL 10 1990

GROUND WATER QUALITY MANAGEMENT

JUL 02 1990

Mr. Mark Kamilow
Manager, Site Remediation
Allied Signal, Inc.
Columbia Turnpike and Park Ave.
Morristown, NJ 07962

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Dear Mr. Kamilow:

Re: Emergency NJPDES/DGW Permit
Universal Oil Processing (UOP) Site, Rte. 17N
East Rutherford, NJ
NJPDES No. NJ0076244

Attached is an emergency New Jersey Pollutant Discharge Elimination System (NJPDES) permit that has been issued pursuant to N.J.A.C. 7:14A-1 et seq. This NJPDES permit is issued under the authority of the New Jersey Water Pollution Control Act and contains conditions for spray irrigation of treated water from the lagoon remediation operation. Unless specifically stated in this permit, this document does not relieve you from any previously issued permits or administrative enforcement documents or agreements. Please be aware of the following provisions of this permit:

1) Samples must be analyzed by a New Jersey Certified laboratory at the frequency and for the parameters specified in the permit.

2) Analytical data must be submitted as required by this permit along with all required supporting QA/QC documentation. A summary report of the spray irrigation system incorporating

all details and operation specifications must be included. The analytical data, tabulated and actual laboratory data sheets, may be included within the summary report.

3) Please be advised that failure to meet the conditions of the permit can result in the imposition of substantial administrative, civil, and criminal penalties.

The appearance of the public notice in the local newspaper marks the commencement of the mandatory 30-day public comment period required by Section 8.1 of the NJPDES regulations. During this time frame, both the permittee and concerned citizens may offer comments regarding the terms and conditions of this permit. All comments must be submitted within the appropriate time frame and in writing to:

Assistant Director
NJDEP Division of Water Resources
Ground Water Quality Management Element
CN-029
Trenton, New Jersey 08625

If you have any questions regarding this permit, please contact Linda Welkom, Project Geologist of the Bureau of Ground Water Pollution Abatement at (609) 292-8427.

Sincerely,

Susan Dengler

Susan Dengler, Acting Chief
Bureau of Ground Water
Pollution Abatement

GWQME341

Enclosures

c: See distribution form

Allied Signal

Allied-Signal Inc.
Engineered Materials Sector
P.O. Box 1139R
Morristown, NJ 07962-1139

June 18, 1990

James A. Schnitzer
Bureau of Federal Case Management
401 East State Street
5th Floor West Wing
CN 028
Trenton, New Jersey 08625

Dear Jamie,

This letter is in response to our meeting on Thursday, June 14, at the UOP site in East Rutherford. Attendees at the meeting were Linda Welkom, Steve MacGregor, George Butler, yourself and myself. The eastern berm of the lagoon is beginning to show signs of imminent failure. Part of the berm on the stream side has collapsed and fallen into the stream. Other parts of the berm are cracked and show signs of collapsing. This scenario was properly outlined in our workplan (section 5.3.7 of the Lagoon Remediation Workplan, ENSR, March 1990). However the current volume of water within the lagoon was not anticipated and our planned repairs cannot be made within the context of the workplan. This work is being done in accordance of section 5.3.8 of the workplan as an emergency measure in response to berm failure.

As we have discussed we are going to take the clay from the bottom of lagoon 2 (eastern lagoon) and pack the east berm. We will also use this clay to increase the berm elevation to prevent overflow during high tide. This will prevent water intrusion and give us an added base for filter fabric and rock. We currently estimate the volume of clay necessary to do this between 100 and 150 cubic yards. Before digging and packing any clay we will scrape the top 6" from an area within the lagoon. This material will be processed and sent to the landfill. We will then use the subsurface clay for our construction material. This work is estimated to be completed within two working days.

In addition to the above plan we will remove the berm material that we used to stop tidal intrusion. This material will be processed and landfilled. A drawing outlining this approach is attached. I realize this may make changes in the post excavation sampling and I will have Mike Worthy contact Steve MacGregor to discuss these changes. If you have any questions on this procedure please call me at 201-455-2119.

Sincerely,

J. Mark Kamilow, Manager
Site Remediation

cc: K. E. Stroup
J. A. Schutt
George Butler

Allied Signal

Allied-Signal Inc.
Engineered Materials Sector
P.O. Box 1139R
Morristown, NJ 07962-1139

July 5, 1990

James A. Schnitzer
Bureau of Federal Case Management
401 E. State Street
5th Floor West Wing
CN 028
Trenton, NJ 08625

Reference: **Emergency Groundwater Discharge Permit**

Dear Jamie,

On Wednesday, June 27,1990 Linda Welkom informed me that our request for an emergency groundwater discharge permit had been granted. This is a modification in our workplan as we had originally anticipated a surface water discharge permit. We are not directly discharging to the groundwater; we are spray irrigating the large surface area in Area 5. This method is being employed to maximize the evaporation rate of the water stream. We have added a second carbon unit to ensure discharge water quality. This too is a modification of the original plan.

I would like thank Ms. Welkom for her patience and assistance in obtaining this permit. I believe it will result in a timely completion of the lagoon remediation.

Sincerely,

J. Mark Kamilow, Manager
Site Remediation

JMK/sp

cc: J. A. Schutt
K. E. Stroup
L. Welkom

PERMIT NUMBER NJ0076244

Emergency Permit

Permittee	Co-Permittee
ALLIED-SIGNAL INC PO BOX 1139R MORRISTOWN NJ 07962-1139	

Property Owner	Location of Activity
ALLIED-SIGNAL INC PO BOX 1139R MORRISTOWN NJ 07962-1139	UNIVERSAL OIL PROCESSING INC INTERSECTION OF ROUTES 17 & 20 EAST RUTHERFORD NJ 07073

Current Authorization Covered By This Approval And Previous Authorization	Issuance Date	Effective Date	Expiration Date
G :SPRAY IRRIGATION-INDUSTRIAL	06/27/1990	06/27/1990	07/28/1990

By Authority of:
Director's Office
Division of Water Resources

DEP AUTHORIZATION
Arnold Schiffman, P.G. Assistant Director
Ground Water Quality Management

SECTION 5. DAILY OPERATING PRODUCTION FIGURES

ALLIED SIGNAL
PRESS PRODUCTION
UOP SITE
E. RUTHERFORD NJ

ALL FIGURES IN CU. YDS.

DATE	PRESS 4030 DAY SHIFT	PRESS 4030 DS CUMM	PRESS 4030 NIGHT SHIFT	PRESS 4030 NS CUMM	PRESS 4030 PRESS CUMM	PRESS 4031 DAY SHIFT	PRESS 4031 DS CUMM	PRESS 4031 NIGHT SHIFT	PRESS 4031 NS CUMM	PRESS 4031 PRESS CUMM	TOTAL TO DATE
25-Apr-90		0		0	0	7.2	7.2		0	7.2	7.2
26-Apr-90		0		0	0	28.8	36		0	36	36
27-Apr-90		0		0	0	3.6	39.6		0	39.6	39.6
28-Apr-90		0		0	0	25.2	64.8		0	64.8	64.8
29-Apr-90		0		0	0	3.6	68.4		0	68.4	68.4
30-Apr-90		0		0	0	21.6	90		0	90	90
01-May-90		0		0	0	18	108	10.8	10.8	118.8	118.8
02-May-90		0		0	0		108		10.8	118.8	118.8
03-May-90		0		0	0		108		10.8	118.8	118.8
04-May-90		0		0	0		108		10.8	118.8	118.8
05-May-90		0		0	0		108		10.8	118.8	118.8
06-May-90		0		0	0		108		10.8	118.8	118.8
07-May-90		0		0	0		108		10.8	118.8	118.8
08-May-90		0		0	0		108		10.8	118.8	118.8
09-May-90		0		0	0		108		10.8	118.8	118.8
10-May-90		0		0	0		108		10.8	118.8	118.8
11-May-90		0		0	0		108		10.8	118.8	118.8
12-May-90		0		0	0		108		10.8	118.8	118.8
13-May-90		0		0	0	25.2	133.2		10.8	144	144
14-May-90		0	21.6	21.6	21.6	39.6	172.8		10.8	183.6	205.2
15-May-90	25.2	25.2	21.6	43.2	68.4		172.8	21.6	32.4	205.2	273.6
16-May-90	18	43.2	21.6	64.8	108		172.8	21.6	54	226.8	334.8
17-May-90	28.8	72	18	82.8	154.8	28.8	201.6	18	72	273.6	428.4
18-May-90	14.4	86.4		82.8	169.2	14.4	216	18	90	306	475.2
19-May-90		86.4		82.8	169.2	25.2	241.2	21.6	111.6	352.8	522
20-May-90		86.4		82.8	169.2	21.6	262.8	25.2	136.8	399.6	568.8
21-May-90	10.8	97.2		82.8	180		262.8	3.6	140.4	403.2	583.2
22-May-90		97.2		82.8	180	7.2	270	14.4	154.8	424.8	604.8
23-May-90		97.2		82.8	180	18	288	18	172.8	460.8	640.8
24-May-90		97.2		82.8	180	39.6	327.6	21.6	194.4	522	702
25-May-90		97.2		82.8	180	32.4	360	32.4	226.8	586.8	766.8
26-May-90		97.2		82.8	180	39.6	399.6	54	280.8	680.4	860.4
27-May-90	3.6	100.8	10.8	93.6	194.4	57.6	457.2	50.4	331.2	788.4	982.8
28-May-90	36	136.8	14.4	108	244.8	39.6	496.8	10.8	342	838.8	1083.6
29-May-90		136.8	32.4	140.4	277.2		496.8	14.4	356.4	853.2	1130.4
30-May-90	18	154.8	39.6	180	334.8	14.4	511.2	43.2	399.6	910.8	1245.6
31-May-90	36	190.8	32.4	212.4	403.2	36	547.2	36	435.6	982.8	1386
01-Jun-90	28.8	219.6	32.4	244.8	464.4	28.8	576	32.4	468	1044	1508.4
02-Jun-90	25.2	244.8	46.8	291.6	536.4	32.4	608.4	14.4	482.4	1090.8	1627.2
03-Jun-90	36	280.8	36	327.6	608.4	36	644.4	39.6	522	1166.4	1774.8
04-Jun-90	39.6	320.4	32.4	360	680.4	39.6	684	32.4	554.4	1238.4	1918.8
05-Jun-90	28.8	349.2	39.6	399.6	748.8	28.8	712.8	32.4	586.8	1299.6	2048.4
06-Jun-90	36	385.2	39.6	439.2	824.4	36	748.8	39.6	626.4	1375.2	2199.6
07-Jun-90	25.2	410.4	25.2	464.4	874.8	32.4	781.2	25.2	651.6	1432.8	2307.6
08-Jun-90	3.6	414	28.8	493.2	907.2	3.6	784.8	32.4	684	1468.8	2376
09-Jun-90	25.2	439.2	32.4	525.6	964.8	25.2	810	32.4	716.4	1526.4	2491.2

	PRESS 4030					PRESS 4031					TOTAL
DATE	DAY SHIFT	DS CUMM	NIGHT SHIFT	NS CUMM	PRESS CUMM	DAY SHIFT	DS CUMM	NIGHT SHIFT	NS CUMM	PRESS CUMM	TO DATE
10-Jun-90	28.8	468	28.8	554.4	1022.4	28.8	838.8	36	752.4	1591.2	2613.6
11-Jun-90	18	486	14.4	568.8	1054.8	25.2	864	14.4	766.8	1630.8	2685.6
12-Jun-90	10.8	496.8		568.8	1065.6	32.4	896.4	36	802.8	1699.2	2764.8
13-Jun-90		496.8		568.8	1065.6	28.8	925.2	32.4	835.2	1760.4	2826
14-Jun-90		496.8		568.8	1065.6	14.4	939.6	14.4	849.6	1789.2	2854.8
15-Jun-90		496.8		568.8	1065.6	18	957.6		849.6	1807.2	2872.8
16-Jun-90	36	532.8		568.8	1101.6	28.8	986.4		849.6	1836	2937.6
17-Jun-90	32.4	565.2		568.8	1134	32.4	1018.8		849.6	1868.4	3002.4
18-Jun-90	25.2	590.4		568.8	1159.2	25.2	1044		849.6	1893.6	3052.8
19-Jun-90	25.2	615.6		568.8	1184.4	25.2	1069.2		849.6	1918.8	3103.2
20-Jun-90	21.6	637.2		568.8	1206	21.6	1090.8		849.6	1940.4	3146.4
21-Jun-90	25.2	662.4		568.8	1231.2	25.2	1116		849.6	1965.6	3196.8
22-Jun-90	25.2	687.6		568.8	1256.4	21.6	1137.6		849.6	1987.2	3243.6
23-Jun-90	18	705.6		568.8	1274.4	18	1155.6		849.6	2005.2	3279.6
24-Jun-90	14.4	720		568.8	1288.8	14.4	1170		849.6	2019.6	3308.4
25-Jun-90	28.8	748.8		568.8	1317.6	28.8	1198.8		849.6	2048.4	3366
26-Jun-90	25.2	774		568.8	1342.8	25.2	1224		849.6	2073.6	3416.4
27-Jun-90	7.2	781.2		568.8	1350	25.2	1249.2		849.6	2098.8	3448.8
28-Jun-90	7.2	788.4		568.8	1357.2	7.2	1256.4		849.6	2106	3463.2
29-Jun-90	3.6	792		568.8	1360.8	3.6	1260		849.6	2109.6	3470.4
30-Jun-90	10.8	802.8		568.8	1371.6	10.8	1270.8		849.6	2120.4	3492
01-Jul-90	14.4	817.2		568.8	1386	14.4	1285.2		849.6	2134.8	3520.8
02-Jul-90	28.8	846	36	604.8	1450.8	28.8	1314	32.4	882	2196	3646.8
03-Jul-90	32.4	878.4	50.4	655.2	1533.6	32.4	1346.4	46.8	928.8	2275.2	3808.8
04-Jul-90	50.4	928.8	39.6	694.8	1623.6	46.8	1393.2	43.2	972	2365.2	3988.8
05-Jul-90	18	946.8	25.2	720	1666.8	36	1429.2	28.8	1000.8	2430	4096.8
06-Jul-90	28.8	975.6		720	1695.6	28.8	1458		1000.8	2458.8	4154.4
07-Jul-90	7.2	982.8		720	1702.8	28.8	1486.8		1000.8	2487.6	4190.4
08-Jul-90	32.4	1015.2		720	1735.2	39.6	1526.4		1000.8	2527.2	4262.4
09-Jul-90	46.8	1062		720	1782	43.2	1569.6		1000.8	2570.4	4352.4

SECTION 6. ENCLOSED ARE RESULTS OF POST EXCAVATION SAMPLING.

1) ROUND 1, TOTAL VOCs
2) ROUND 1, TOTAL PCBs
3) ROUND 1, TOTAL CHROME
4) FINAL

Allied Signal

August 7, 1990

Allied-Signal Inc.
Engineered Materials Sector
P.O. Box 1139R
Morristown, NJ 07962-1139

James A. Schnitzer
Bureau of Federal Case Management
401 E. State Street
5th Floor West Wing
CN 028
Trenton, NJ 08625

Reference: UOP Site, East Rutherford, NJ

Dear Jamie,

On July 17,1990 the lagoon remediation of the UOP site was completed and post excavation samples were taken. These samples were taken and analyzed according to our recently modified sampling plan. The results of these analyses were not available until 7-27-90. At that time I informed you that the PCB level of the samples ranged from 2 to 66ppm. Based on this information, I instructed my contractor to remove another foot of material from the lagoon. While this removal was underway I received the other results of the sampling round. The chrome levels (Cr+3) ranged from 2.2 to 15000ppm. The VOC's ranged from <1 to 16 ppm. The main VOC was toluene.

Based on this information my second post excavation sampling round will only include PCB and Chrome analyses. This sampling is to commence today and will be completed tomorrow. In addition we are going to proceed with the berm stabilization and backfill immediately. As you know, most of our equipment has been demobilized and this is the last work event before final demobilization. We do not want to wait idly for the second sampling results.

If you have any questions regarding this matter please call me at 201-455-2119

Sincerely,

J. Mark Kamilow, Manager
Site Remediation

JMK/sp

cc: J. A. Schutt
K. E. Stroup

Wastewater Lagoons Post-Excavation
Sampling Round 1
Total VOCs, ppm

Lagoon 1		Lagoon 2		Center Berm	
Sample #	Results	Sample #	Results	Sample #	Results
1	10.6	13	8.9	23	0.7
2	15.6	14	1.9	24	2.4
3	1.2	15	5.3	G	2.9
4	3.7	16	1	H	2.8
5	2	17	3.5	I	11.1
6	7	18	1		
7	6.5	19	1.8		
8	12.3	20			
9	1.4	21	0.9		
10	8.6	22			
11	5.6	C	4.9		
12	2.5	D	2.1		
A	10.7	E	3.5		
B					
F	11.9				

Minimum	1.2	0.9	0.7
Maximum	15.6	8.9	11.1
Average	7.1	3.2	4.4

Wastewater Lagoons Post-Excavation
Sampling Round 1
Total PCBs, ppm

Lagoon 1		Lagoon 2		Center Berm	
Sample #	Results	Sample #	Results	Sample #	Results
1	46.0	13	58.0	23	2.4
2	33.0	14	60.0	24	40.0
3	8.9	15	40.0	G	2.6
4	16.0	16	12.0	H	38.0
5	30.0	17	36.0	I	62.0
6	28.0	18	29.0		
7	23.0	19	37.0		
8	54.0	20	6.0		
9	22.0	21	62.0		
10	15.0	22	66.0		
11	33.0	C	40.0		
12	10.0	D	26.0		
A	27.0	E	41.0		
B	10.0				
F	50.0				

Average	32
Minimum	2
Maximum	66
Standard Deviation	18

Wastewater Lagoons Post-Excavation
Sampling Round 1
Total Chrome, ppm

Lagoon 1		Lagoon 2		Center Berm	
Sample #	Results	Sample #	Results	Sample #	Results
1	2.2	13	1400.0	23	16.0
2	2800.0	14	1400.0	24	860.0
3	2600.0	15	280.0	G	190.0
4	2100.0	16	340.0	H	2300.0
5	5800.0	17	1300.0	I	20.0
6	2600.0	18	15000.0		
7	1600.0	19	53.0		
8	3400.0	20	1300.0		
9	2800.0	21	1200.0		
10	2900.0	22	1700.0		
11	2700.0	C	1100.0		
12	1800.0	D	1200.0		
A	2500.0	E	35.0		
B	3800.0				
F	2500.0				

Average	2109
Minimum	2.2
Maximum	15000
Standard Deviation	2617

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 09/10/90
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below: ETC Sample No. | O.H. MATERIALS: Company | OHM755: Facility | See Below: Sample Point, Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No's							
		S CB-23 900807 HA2891	S CB-G 900807 HA2890	S CB-H 900807 HA2892	S CB-I 900807 HA2920	S LI-I 900808 HA2861	S LI-10 900808 HA2870	S LI-11 900808 HA2871	S LI-12 900808 HA2872
Metals Analysis Data									
Chromium	ug/kg	12000	93000	2230000	45000	2370000	3380000	3590000	526000
Aroclors by GC									
Aroclor 1242	ug/kg	< 58	< 670	< 710	< 65	< 780	< 660	< 770	< 60
Aroclor 1254	ug/kg	< 120	1530	2670	< 130	5340	1510	3090	< 120
Aroclor 1260	ug/kg	< 120	< 1300	< 1400	< 130	< 1600	< 1300	< 1500	< 120
Aroclor 1248	ug/kg	< 58	8330	15300	316	26200	8170	15000	< 60
Aroclor 1232	ug/kg	< 58	< 670	< 710	< 65	< 780	< 660	< 770	< 60
Aroclor 1221	ug/kg	< 58	< 670	< 710	< 65	< 780	< 660	< 770	< 60
Aroclor 1016	ug/kg	< 58	< 670	< 710	< 65	< 780	< 660	< 770	< 60

Footnotes: SMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 09/10/90
PAGE: 2

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	G.H. MATERIALS	OHM8755		

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No's							
		S LI-2 900808 HA2862	S LI-3 900808 HA2863	S LI-4 900808 HA2864	S LI-5 900808 HA2865	S LI-6 900808 HA2866	S LI-7 900808 HA2867	S LI-8 900808 HA2868	S LI-9 900808 HA2869
Metals Analysis Data									
Chromium	ug/kg	1180000	1590000	344000	3770000	9260000	2970000	2540000	3930000
Aroclors by GC									
Aroclor 1242	ug/kg	< 690	< 57	< 740	< 67	< 58	< 710	< 63	< 780
Aroclor 1254	ug/kg	< 1400	< 110	1780	< 130	< 120	1750	< 130	2810
Aroclor 1260	ug/kg	< 1400	< 110	< 1500	< 130	< 120	< 1400	< 130	< 1600
Aroclor 1248	ug/kg	7060	< 57	11900	< 67	< 58	12100	< 63	19100
Aroclor 1232	ug/kg	< 690	< 57	< 740	< 67	< 58	< 710	< 63	< 780
Aroclor 1221	ug/kg	< 690	< 57	< 740	< 67	< 58	< 710	< 63	< 780
Aroclor 1016	ug/kg	< 690	< 57	< 740	< 67	< 58	< 710	< 63	< 780

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 09/10/90
PAGE: 3

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — ETC Sample No. | O.H. MATERIALS — Company | OHM8755 — Facility | See Below — Sample Point | See Below — Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No's							
		L1-10 900808 HA2876	L2-13 900807 HA2877	L2-14 900807 HA2878	L2-15 900807 HA2879	L2-16 900807 HA2880	L2-17 900807 HA2881	L2-18 900807 HA2882	L2-19 900807 HA2883
Metals Analysis Data									
Chromium	ug/kg	7580000	1940000	36000	1070000	18000	1440000	1740000	840000
Aroclors by GC									
Aroclor 1242	ug/kg	< 760	< 760	< 720	< 710	< 570	< 720	< 730	< 830
Aroclor 1254	ug/kg	1830	4250	2750	4460	2020	2170	3350	2580
Aroclor 1260	ug/kg	< 1500	< 1500	< 1400	< 1400	< 1100	< 1400	< 1500	< 1700
Aroclor 1248	ug/kg	10700	21800	14600	22100	10400	11700	19300	15900
Aroclor 1232	ug/kg	< 760	< 760	< 720	< 710	< 570	< 720	< 730	< 830
Aroclor 1221	ug/kg	< 760	< 760	< 720	< 710	< 570	< 720	< 730	< 830
Aroclor 1016	ug/kg	< 760	< 760	< 720	< 710	< 570	< 720	< 730	< 830

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 09/10/90
PAGE: 4

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	O.H. MATERIALS *Company*		UNI8755 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S L2-20 900807 HA2884	S L2-21 900807 HA2885	S L2-22 900807 HA2886	S L2-24 900807 HA2893	S L2-FD 900807 HA2919	S P-A 900808 HA2874	S P-B 900808 HA2875	S P-C 900807 HA2889
Metals Analysis Data									
Chromium	ug/kg	365000	1230000	427000	1370000	12000	2420000	2680000	1200000
Aroclors by GC									
Aroclor 1242	ug/kg	< 100	< 550	< 760	< 830	< 57	< 810	< 690	< 550
Aroclor 1254	ug/kg	< 210	3080	2460	3310	< 110	2380	1530	2710
Aroclor 1260	ug/kg	< 210	< 1100	< 1500	< 1700	< 110	< 1600	< 1400	< 1100
Aroclor 1248	ug/kg	1810	17400	19500	18900	< 57	10600	10700	14300
Aroclor 1232	ug/kg	< 100	< 550	< 760	< 830	< 57	< 810	< 690	< 550
Aroclor 1221	ug/kg	< 100	< 550	< 760	< 830	< 57	< 810	< 690	< 550
Aroclor 1016	ug/kg	< 100	< 550	< 760	< 830	< 57	< 810	< 690	< 550

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 09/10/90
PAGE: 5

Chain of Custody Data Required for ETC Data Management Summary Report

See Below: ETC Sample No.	Company	Facility	See Below: Sample Point	Date
	O.H. MATERIALS	OMB755		

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No's							
		S:P-D 900807 HA2888	S:P-E 900807 HA2887	S:P-F 900808 HA2873					
Metals Analysis Data									
Chromium	ug/kg	13000	1460000	3590000					
Aroclors by GC									
Aroclor 1242	ug/kg	< 59	< 860	< 640					
Aroclor 1254	ug/kg	< 120	3260	< 1300					
Aroclor 1260	ug/kg	< 120	< 1700	< 1300					
Aroclor 1248	ug/kg	< 59	21300	2650					
Aroclor 1232	ug/kg	< 59	< 860	< 640					
Aroclor 1221	ug/kg	< 59	< 860	< 640					
Aroclor 1016	ug/kg	< 59	< 860	< 640					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

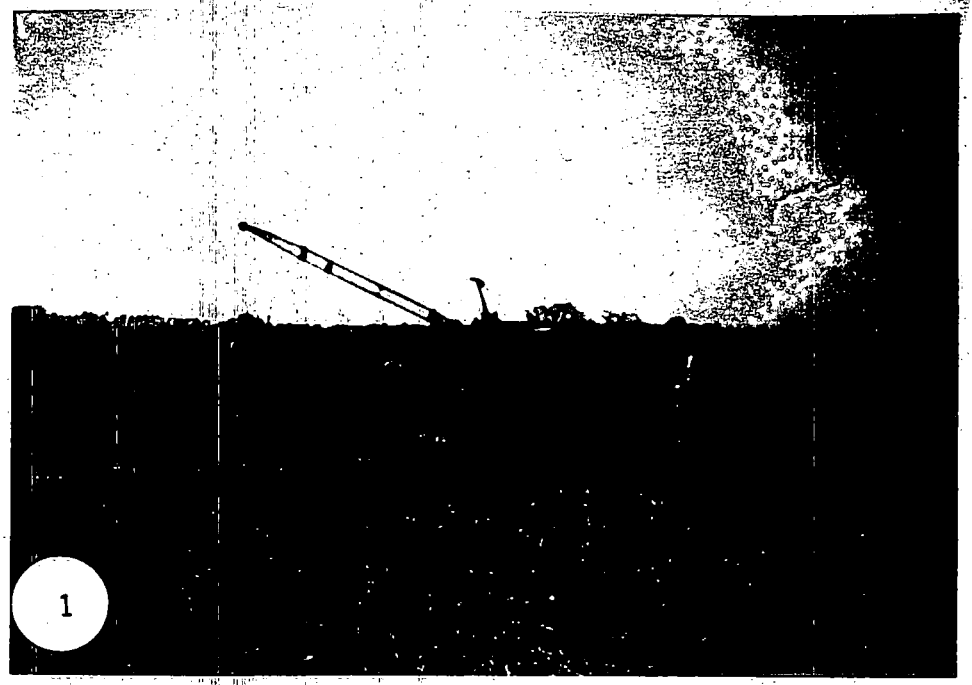
SECTION 7. PHOTOGRAPHS

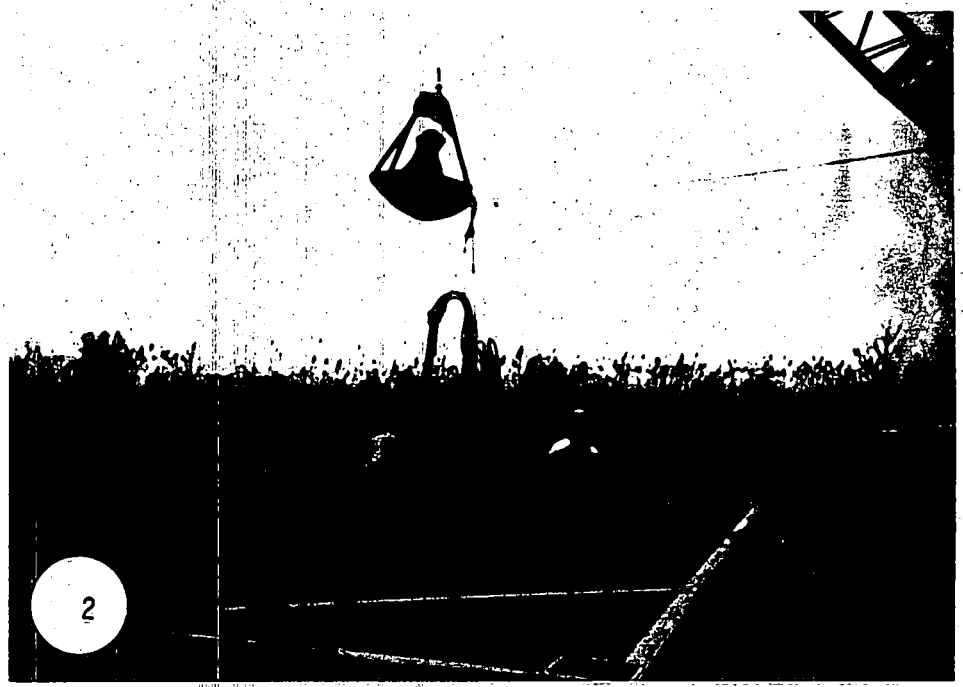
PCB Hot Spot Removal

1) Marsh Buggy Placing Boxes

2) Inserting Hydraulic Pump

3) Pumping Out Box



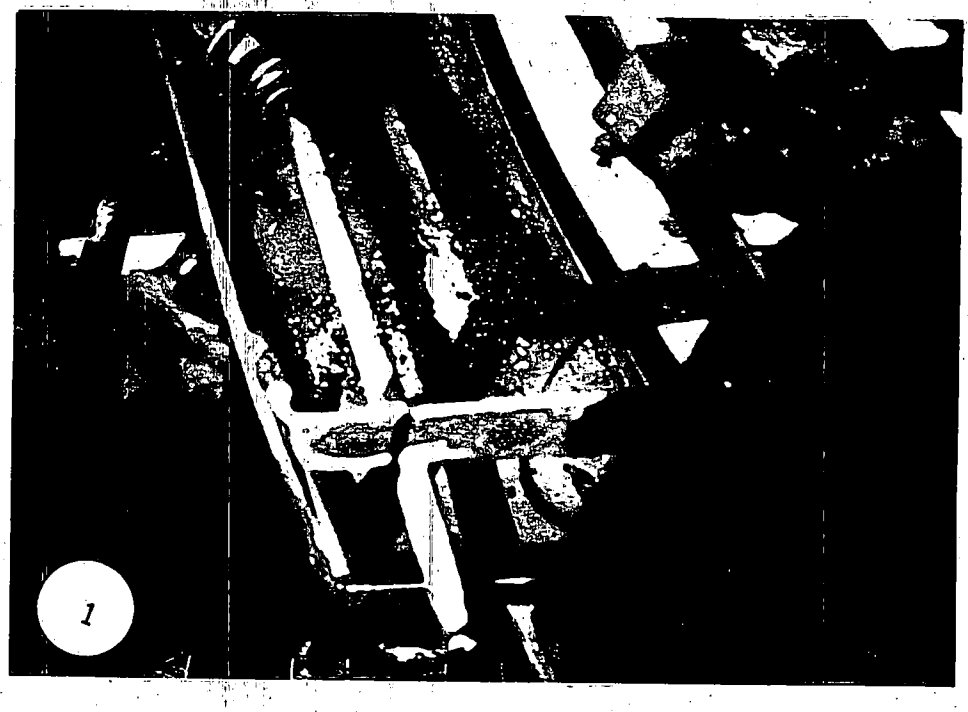


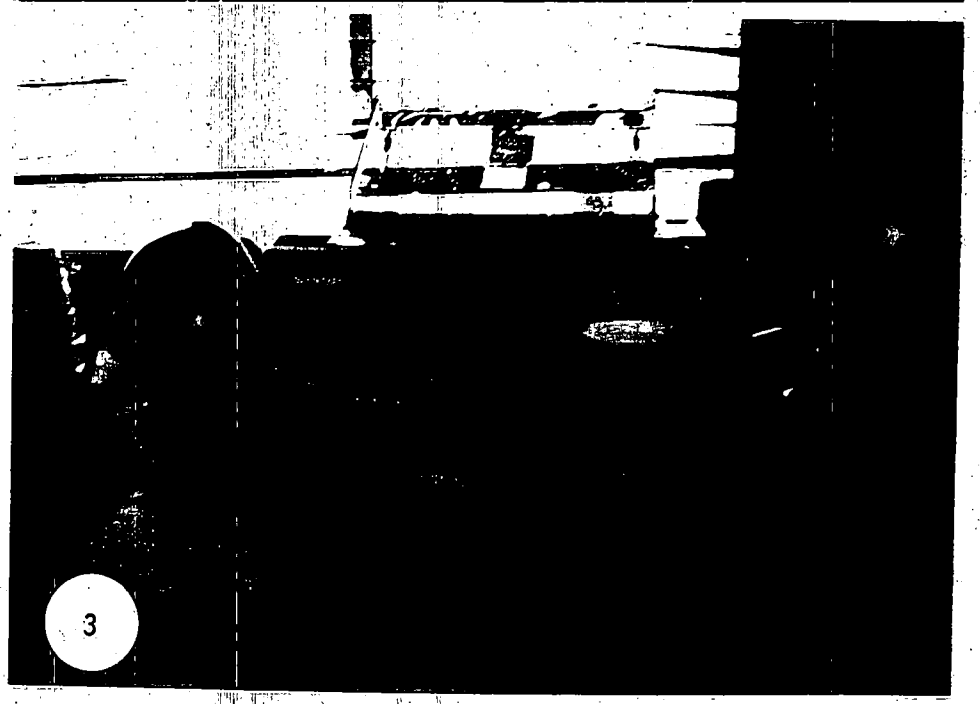
Union Problems

1) Metal Shavings Dropped in Crank Case

2) Clean up of Diesel Spill

3) Jack Spikes Used to Flatten Tires



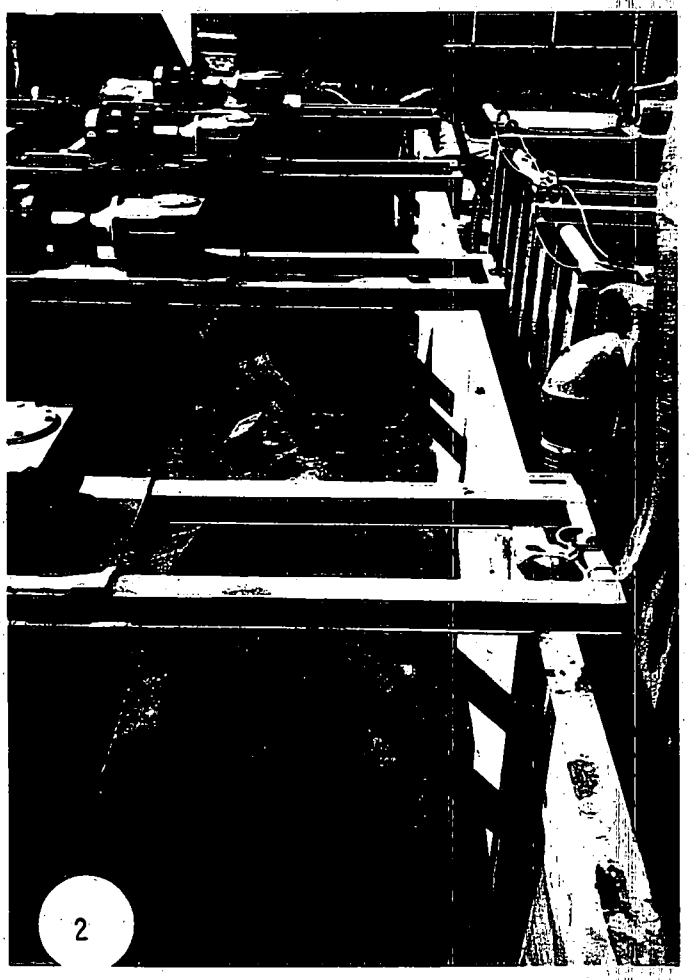


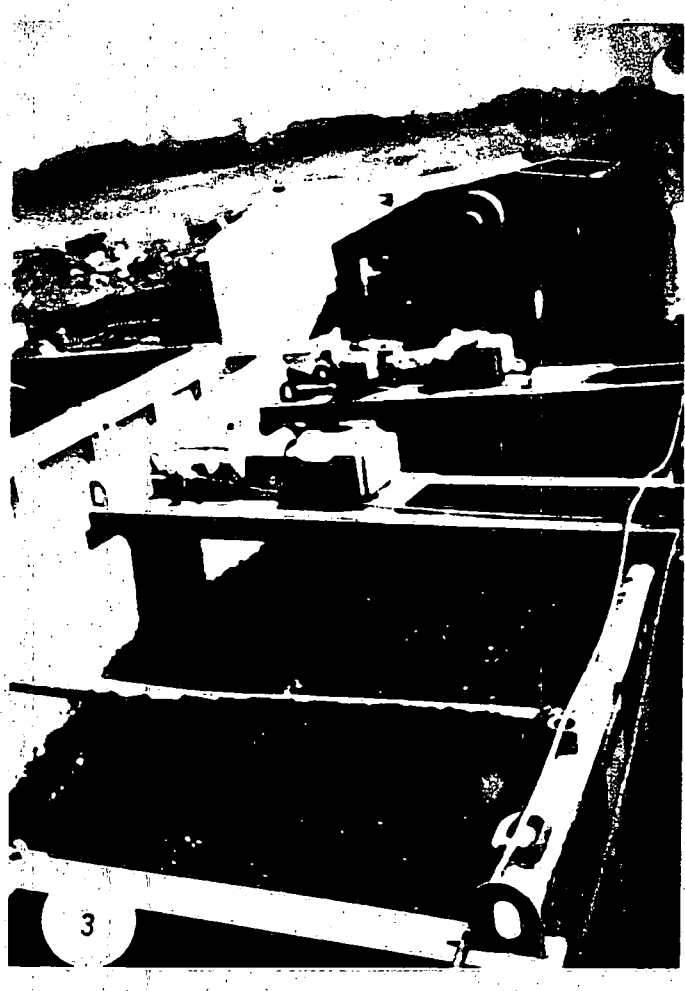
Sludge Treatment

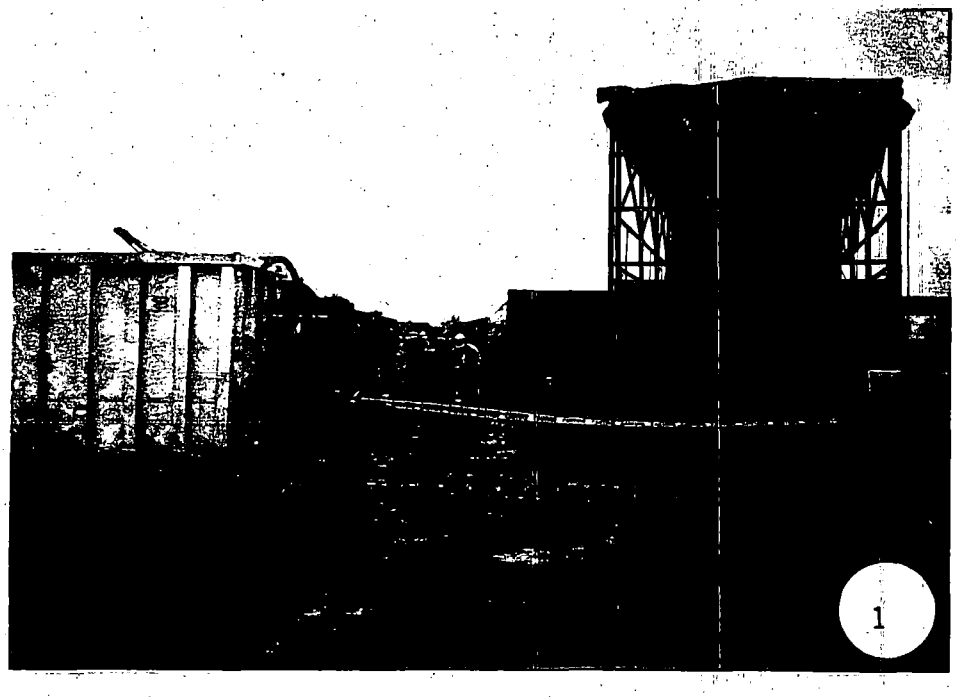
1) Shaker Screen

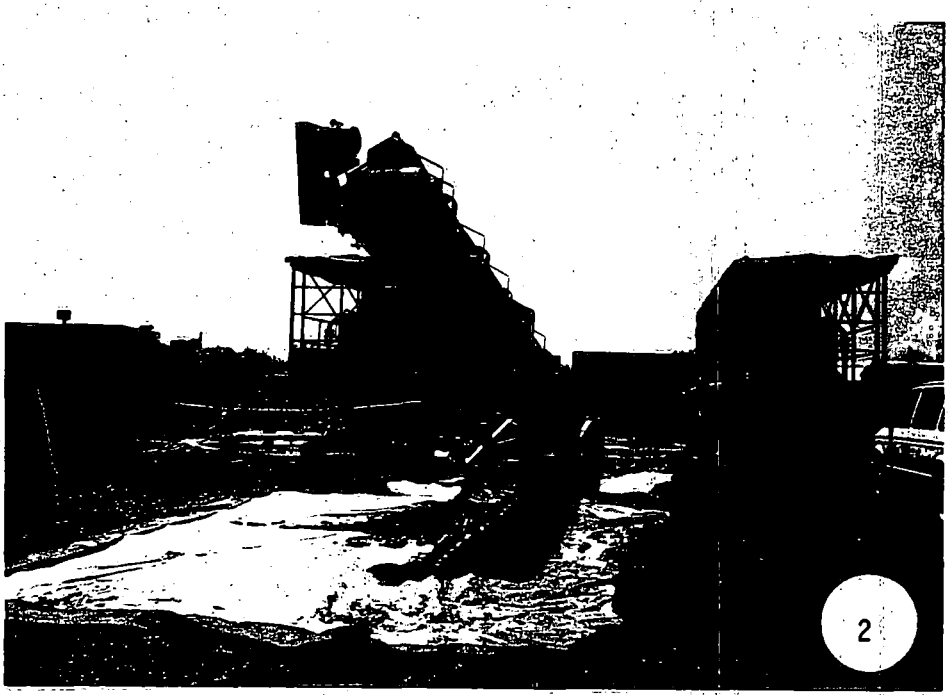
2) Mixing Tank (empty)

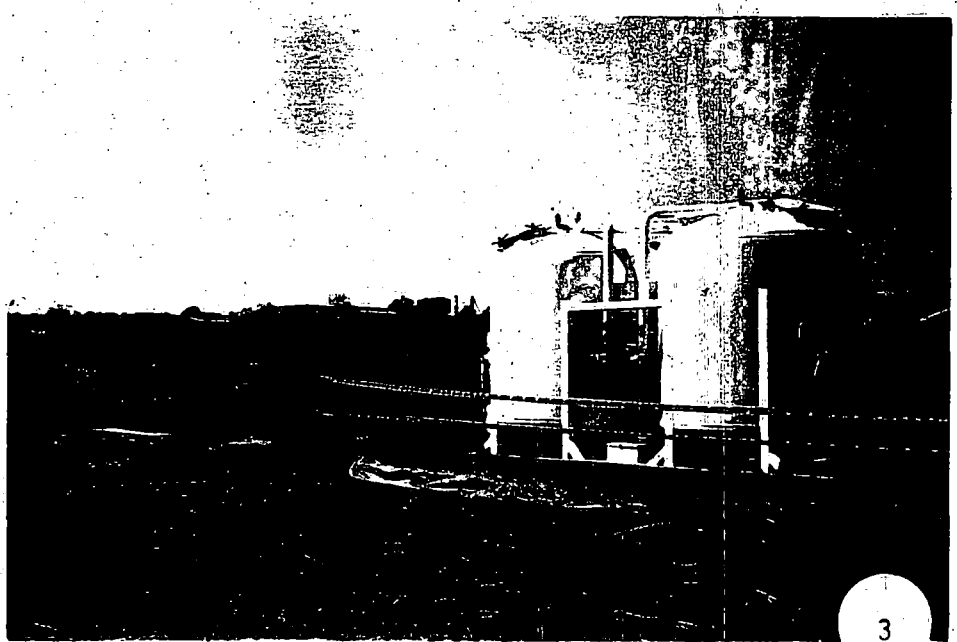
3) Mixing Tank (with sludge)











Sludge Treatment

1) Mixing Tanks & Filter Press

2) Filter Press & Conveyor System

3) Water Treatment